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Total No of Questions:-398

Question: 1

You create a Web Form that allows users to create a new account. You add a CreateUserWizard control by using the following code segment.

```
<asp:CreateUserWizard id="Wizard1" runat="server"/>
```

You need to ensure that the wizard automatically sends an e-mail message to users when they finish creating their accounts. You add a valid <smtp> element to the Web.config file. Which code segment should you add to the Page_Load event?

- A. Wizard1.RequireEmail = True
- B. Wizard1.Email = "user@address.com"
- C. Wizard1.MailDefinition.From = "registration@mysite.com"
- D. SmtMail.SmtpServer = "mail.contoso.com"

Answer: C

Question: 2

You are developing a Web application. Your code restricts access to some pages based on the users credentials.

You need to configure IIS to supply the user's Windows credentials to your Web application. These credentials must be encrypted. What should you do?

- A. Enable Anonymous access. Enable Integrated Windows authentication.
- B. Enable Anonymous access. Enable Basic authentication.
- C. Disable Anonymous access. Enable Integrated Windows authentication.
- D. Disable Anonymous access. Enable Basic authentication.

Answer: C

Question: 3

Your Web site uses custom Themes. Your Web site must support additional Themes based on the user's company name. The company name is set when a user logs on to the Web site. The company's Theme name is stored in a variable named Theme Name. You need to use this variable to dynamically set the Web site's Theme.

What should you do?

- A. Add the following code segment to the markup source of each page on the Web site. <%@ Page Theme="ThemeName" ... %>
- B. Add the following code segment to the Load event of each page on the Web site. Page.Theme = ThemeName
- C. Add the following code segment to the PreInit event of each page on the Web site. Page.Theme = ThemeName
- D. Add the following code segment to the Web site's configuration file. <pages theme="ThemeName" />

Answer: C

Question: 4

You create a master page named Article.master. Article.master serves as the template for articles on your Web site. The master page uses the following page directives.

```
<%@ Master Language="VB" CodeFile="article.master.vb" Inherits="article" %>
```

You need to create a content page that uses the master page as a template. In addition, you need to use a single master page for all devices that access the Web site. Which code segment should you use?

- A. <%@ Page Language="VB" Theme="article"%>
- B. <%@ Page Language="VB" MasterPageFile="~/article.master"%>
- C. <%@ Page Language="VB" ie:MasterPageFile="~/article.master"%>
- D. <%@ Page Language="VB" all:MasterPageFile="~/article.master"%>

Answer: B

Question: 5

You create a Web site that stores users' active themes in user profile objects. You need to apply users' preferred themes when they log on to the Web site. What should you do?

- A. In the InitComplete event handler, set the Theme property of the Page object based on the user profile.
- B. In the PreLoad event handler, set the Theme property of the Page object based on the user profile.
- C. In the OnLoad event handler, set the Theme property of the Page object based on the user profile.
- D. In the PreInit event handler, set the Theme property of the Page object based on the user profile.

Answer: D

Question: 6

You create Web sites for Company.com. You apply a consistent design to the pages and controls of the Web sites. You need to make style changes to all of the Web sites on the Web server. You want to achieve this goal without having to edit the individual pages on each Web site. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Place a theme in the App_Themes directory under the application root directory.
- B. Place a theme under an ASP.NETClientFiles folder under the ASP.NET installation directory.
- C. Assign a theme by setting the <%@ Page Theme="..." %> directive to the name of the application theme.
- D. Assign a theme by specifying the <pages theme="..." /> section in the Web.config file.

Answer: B, D

Question: 7

You create an application. The application processes hundreds of XML documents per minute. The XML documents are validated against inline schemas. You need to load XML documents from the file system and read them as quickly as possible. XML comments must be ignored while reading the XML documents. What should you do?

- A. Create an instance of the XmlReader class by using the XmlReader Create method with an instance of the XmlReaderSettings class.
- B. Create an instance of the XmlReader class with an instance of the XmlTextReader class.
- C. Create an instance of the XmlDocument class and specify a location for the application schema.
- D. Create an instance of the XmlReader class with an instance of the XmlNodeReader class.

Answer: A

Question: 8

You are transferring records from one database to another. You need to decide whether you can use the SqlBulkCopy class to transfer the records. What should you do?

- A. Ensure that the source database is Microsoft SQL Server.
- B. Ensure that the destination database is Microsoft SQL Server.
- C. Ensure that the column names in the source table match the column names in the destination table.
- D. Ensure that the bulk copy program (bcp) utility is installed on the destination server.

Answer: B

Question: 9

You are creating a Web Form. The Web Form allows users to rename or delete products in a list. You create a DataTable named dtProducts that is bound to a GridView. DataTable has the following four rows.

```
dtProducts.Rows(0)("ProductName") = "Soap"  
dtProducts.Rows(1)("ProductName") = "Book"  
dtProducts.Rows(2)("ProductName") = "Computer"  
dtProducts.Rows(3)("ProductName") = "Spoon"  
dtProducts.AcceptChanges()
```

The user utilizes a Web Form to delete the first product. You need to set the RowStateFilter property of the DataTables DefaultView so that only products that have not been deleted are shown. To which value should you set the DataTables DefaultView.RowStateFilter?

- A. DataViewRowState.ModifiedOriginal
- B. DataViewRowState.ModifiedCurrent
- C. DataViewRowState.CurrentRows
- D. DataViewRowState.Added

Answer: C

Question: 10

You create a Web Form that contains a TreeView control. The TreeView control allows users to navigate within the Marketing section of your Web site. The following XML defines the site map for your site.

```
<siteMapNode url="~/default.aspx" title="Home" description="Site Home Page">  
<siteMapNode url="Sales.aspx" title="Sales" description="Sales Home">  
<siteMapNode url="SalesWest.aspx" title="West Region" description="Sales for the West  
Region" />  
<siteMapNode url="SalesEast.aspx" title="East Region" description="Sales for the East Region"  
/>  
</siteMapNode>  
<siteMapNode url="Marketing.aspx" title="Marketing" description="Marketing Home">  
<siteMapNode url="MarketNational.aspx" title="National Campaign" description="National  
marketing  
campaign" />  
<siteMapNode url="MarketMidwest.aspx" title="Midwest Campaign" description="Midwest region  
marketing campaign" />  
<siteMapNode url="MarketSouth.aspx" title="South Campaign" description="South region  
marketing  
campaign" />  
</siteMapNode></siteMapNode>
```

You need to bind the TreeView control to the site map data so that users can navigate only within the Marketing section. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Add a SiteMapDataSource control to the Web Form and bind the TreeView control to it.
- B. Add a SiteMapPath control to the Web Form and bind the TreeView control to it.
- C. Embed the site map XML within the SiteMap node of a Web.sitemap file.
- D. Embed the site map XML within the AppSettings node of a Web.config file.
- E. Set the StartingNodeUrl property of the SiteMapDataSource control to ~/Marketing.aspx.
- F. Set the SkipLinkText property of the SiteMapPath control to Sales.

Answer: A, C, E

Question: 11

You are developing an application that connects to a Microsoft SQL Server database using the SqlConnection object. Your connection objects are being pooled. As the pool fills up, connection requests are queued. Some connection requests are rejected. You need to ensure that the application releases connections back to the pool as soon as possible. Also, you need to decrease the likelihood that connection requests will be rejected. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Ensure that the Close method is called on each connection object after it has finished executing.
- B. Ensure that each connection object is left open after it has finished executing.
- C. Increase the Max Pool Size value inside the connection string.
- D. Increase the Min Pool Size value inside the connection string.
- E. Increase the Connection Lifetime value inside the connection string.
- F. Increase the value of the ConnectionTimeout property of the SqlConnection object.

Answer: A, C, F

Question: 12

You are creating a custom user control. The custom user control will be used on 10 Web Forms for an ASP.NET Web site that allows users to register and log on to a personalized experience. The custom user control uses two TextBox controls and two Button controls. You need to ensure that the controls are visible only when users are not logged on to the Web site. You also need to minimize the amount of effort in development and maintenance for the Web site. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add the OnClick event handler for the Login button to the code used in the custom user control.
- B. Add the OnClick event handler for the Login button to the code used in the Web Form where the control is added.
- C. In the Page_Load method of the Web Form, add a code segment to set the visibility of the TextBox and Button controls where the control is added.
- D. In the Page_Load method of the custom user control, add a code segment to set the visibility of the TextBox and Button controls.

Answer: A, D

Question: 13

You develop a Web control. The Web control consists of labels and associated text boxes. You need to ensure that the Web control has both toolbox and visual designer support. What should you do?

- A. Add a Web Control Library project to your solution. Define a class that inherits from CompositeControl.
- B. Add a Windows Control Library project to your solution. Define a class that inherits from UserControl.
- C. Add a Web User Control to your project. Define a class that inherits from UserControl.

D. Add a Mobile Web User Control to your project. Define a class that inherits from MobileUserControl.

Answer: A

Question: 14

You create a control named ContosoUI for a Web application. You need to add the control to the toolbox of Microsoft Visual Studio .NET. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create the ContosoUI control as a Web Control Library.
- B. Create the ContosoUI control as a Web user control.
- C. Within the Visual Studio .NET toolbox, browse to and select ContosoUI.ascx.
- D. Within the Visual Studio .NET toolbox, browse to and select ContosoUI.dll.

Answer: A, D

Question: 15

You create a Web Form with several UI elements on it. During a code review, you realize that some of the UI elements can be grouped into user controls. You need to create a Web control to group the UI elements that do not require server-side processing. Doing so will enable you to programmatically add or remove the UI elements from the page. You want to maintain the UI elements' style properties. What should you do?

- A. Use System.Web.UI.TemplateControl to group the UI elements.
- B. Use System.Web.UI.HtmlControls.HtmlControl to group the UI elements.
- C. Use System.Web.UI.LiteralControl to group the UI elements.
- D. Use System.Web.UI.WebControls.Literal to group the UI elements.

Answer: C

Question: 16

You are developing a Web application to display products. Products are displayed on different pages on your Web site. You want to create a user control to manage the display of products. You need a default visual implementation of the UI of the user control. In addition, you need to provide developers with the flexibility to change the layout and controls of the UI. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Apply the TemplateContainerAttribute to a property of type ITemplate. Pass the type of the template's naming container as the argument to the attribute.
- B. Apply the TemplateContainerAttribute to the user control's class declaration.
- C. Implement a property of type INamingContainer in the user control's code-behind class.
- D. Implement a property of type ITemplate in the user control's code-behind class.
- E. Define a new class that inherits from the ITemplate interface. Implement the InstantiateIn method of the ITemplate interface.

Answer: A, D, E

Question: 17

You create a Web Form that contains connected Web Parts. You write the following declaration in your Web Form.

```
<asp:WebPartConnection ID="WebPartConnection1"
ProviderID="customerPart"
ConsumerID="ordersPart" />
```

You need to ensure that your Web Part connection is valid. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Include a data source identified as "WebPartConnection1" on the Web Form.
- B. Include a Web Part identified as "customerPart" on the Web Form.
- C. Include a Web Part identified as "ordersPart" on the Web Form.
- D. Ensure that you declare an interface named "IOOrdersPart".
- E. Ensure that you declare an interface named "ICustomerPart".
- F. Ensure that each Web Part declares either a GetInterface or ProvideInterface method.

Answer: B, C

Question: 18

You create a Web site. You add an EditorZone control to the home page on the Web site. You need to enable users to customize the size and location of the Web Parts on their home pages. Which two controls should you add to the EditorZone control? (Each correct answer presents part of the solution. Choose two.)

- A. BehaviorEditorPart
- B. AppearanceEditorPart
- C. PropertyGridEditorPart
- D. LayoutEditorPart

Answer: B, D

Question: 19

You create a server control that inherits from WebControl. You need to enable the server control to emit markup for a new kind of mobile device. You must not alter the code in the server controls. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

- A. Create a class that inherits HtmlTextWriter and that can emit the new markup.
- B. Create a class that inherits StreamWriter and that can emit the new markup.
- C. Reference the class in the <capabilities> element of the new device's browser definition file.
- D. Reference the class in the <controlAdapters> element of the new device's browser definition file.

Answer: A, D

Question: 20

You create a Web Form that contains a text box named txtDate. You want the text box to allow users to enter any valid date. You need to use an ASP.NET validation control to ensure that only valid date values are submitted to the server. What should you do?

- A. Add a CompareValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its Operator property to DataTypeCheck.
- B. Add a RangeValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its MinimumValue property to 01/01/1900 and its MaximumValue to the current date.
- C. Add a CustomValidator control to the Web Form. Set its ControlToValidate property to txtDate. Write a function in the partial class that verifies the values as dates and returns a Boolean variable. Set the CustomValidators ClientValidationFunction to the name of your function.
- D. Add a RegularExpressionValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set the ValidationExpression property to ensure that the users input follows the format of nn-nn-nnnn, where n represents a number from 0 through 9.

Answer: A

Question: 21

You create a Web Form that contains a button named btnCancel that enables users to exit the page. When users click this button, validation must not occur. During testing you learn that clicking the Cancel button does not enable users to exit the page. You need to ensure that users can always exit the page. What should you do?

- A. Set the Enabled property of the validation controls on the Web Form to False.
- B. Set the CausesValidation property of the btnCancel button to False.
- C. Set the CausesValidation property of the btnCancel button to True.
- D. Set the Visible property of the validation controls on the Web Form to False.

Answer: B

Question: 22

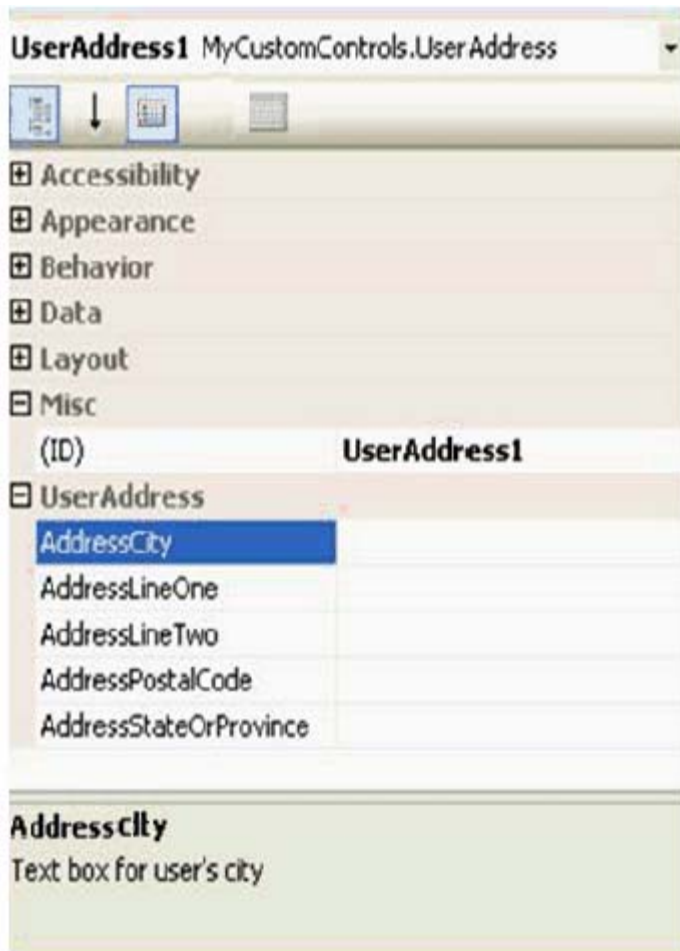
You create a server control that inherits from WebControl. You need to enable the server control to emit markup for a new kind of mobile device. You must not alter the code in the server controls. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

- A. Create a class that inherits HtmlTextWriter and that can emit the new markup.
- B. Create a class that inherits StreamWriter and that can emit the new markup.
- C. Reference the class in the <capabilities> element of the new device's browser definition file.
- D. Reference the class in the <controlAdapters> element of the new device's browser definition file.

Answer: A, D

Question: 23

Exhibit:



You are creating a composite control for capturing user address information in a Web application. You define a number of properties that the user can set at design time. You need to group these properties in the Properties dialog box. In addition, you need to ensure that when users click on a particular property, they receive a short explanation of that property. The properties are shown in the exhibit.

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Attach the Category attribute class to the controls class definition. Set its value to UserAddress. Mark the class as public.
- B. Attach theBrowsable attribute class to each property in the group. Set its value to True. Mark the property as private.
- C. Attach the Category attribute class to each property in the group. Set its value to UserAddress. Mark the property as public.
- D. Attach the Description attribute class to each property in the group. Set each value to a description of the given property.
- E. Attach the DefaultValue attribute class to each property in the group. Set each value to a description of the given property.

Answer: C, D

Question: 24

You create a control named ContosoUI for a Web application. You need to add the control to the toolbox of Microsoft Visual Studio .NET. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create the ContosoUI control as a Web Control Library.
- B. Create the ContosoUI control as a Web user control.
- C. Within the Visual Studio .NET toolbox, browse to and select ContosoUI.ascx.
- D. Within the Visual Studio .NET toolbox, browse to and select ContosoUI.dll.

Answer: A, D

Question: 25

You develop a Web control. The Web control consists of labels and associated text boxes. You need to ensure that the Web control has both toolbox and visual designer support. What should you do?

- A. Add a Web Control Library project to your solution. Define a class that inherits from CompositeControl.
- B. Add a Windows Control Library project to your solution. Define a class that inherits from UserControl.
- C. Add a Web User Control to your project. Define a class that inherits from UserControl.
- D. Add a Mobile Web User Control to your project. Define a class that inherits from MobileUserControl.

Answer: A

Question: 26

You are developing a Web application to display products. Products are displayed on different pages on your Web site. You want to create a user control to manage the display of products. You need a default visual implementation of the UI of the user control. In addition, you need to provide developers with the flexibility to change the layout and controls of the UI. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Apply the TemplateContainerAttribute to a property of type ITemplate. Pass the type of the template's naming container as the argument to the attribute.
- B. Apply the TemplateContainerAttribute to the user control's class declaration.
- C. Implement a property of type INamingContainer in the user control's code-behind class.
- D. Implement a property of type ITemplate in the user control's code-behind class.
- E. Define a new class that inherits from the ITemplate interface. Implement the InstantiateIn method of the ITemplate interface.

Answer: A, D, E

Question: 27

You create a Web Form with several UI elements on it. During a code review, you realize that some of the UI elements can be grouped into user controls. You need to create a Web control to group the UI elements that do not require server-side processing. Doing so will enable you to programmatically add or remove the UI elements from the page. You want to maintain the UI elements' style properties. What should you do?

- A. Use System.Web.UI.TemplateControl to group the UI elements.
- B. Use System.Web.UI.HtmlControls.HtmlControl to group the UI elements.
- C. Use System.Web.UI.LiteralControl to group the UI elements.
- D. Use System.Web.UI.WebControls.Literal to group the UI elements.

Answer: C

Question: 28

You are creating a custom user control. The custom user control will be used on 10 Web Forms

for an ASP.NET Web site that allows users to register and log on to a personalized experience. The custom user control uses two TextBox controls and two Button controls. You need to ensure that the controls are visible only when users are not logged on to the Web site. You also need to minimize the amount of effort in development and maintenance for the Web site. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add the OnClick event handler for the Login button to the code used in the custom user control.
- B. Add the OnClick event handler for the Login button to the code used in the Web Form where the control is added.
- C. In the Page_Load method of the Web Form, add a code segment to set the visibility of the TextBox and Button controls where the control is added.
- D. In the Page_Load method of the custom user control, add a code segment to set the visibility of the TextBox and Button controls.

Answer: A, D

Question: 29

You create a Web Form. The Web Form allows users to recover their passwords. You add a PasswordRecovery server control by using the following code segment.

```
<asp:PasswordRecovery runat="server"/>
```

You need to ensure that the server control generates a new password and sends it by e-mail to the users e?mail address. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create a valid <smtp> definition in the Web.config file.
- B. Set the passwordFormat attribute of the configured membership provider to Encrypted.
- C. Ensure that the enablePasswordRetrieval attribute of the configured membership provider is set to False.
- D. Ensure that the enablePasswordRetrieval attribute of the configured membership provider is set to True.

Answer: A, C

Question: 30

You create a Web site with membership and personalization enabled. You must use an existing CRM database for storing the membership information. You need to implement the Membership Provider. What should you do?

- A. Modify the connection string in the Web.config file to connect to the CRM database.
- B. Add new a SqlMembershipProvider to the Web.config file.
- C. Create a custom Membership Provider inheriting from MembershipProvider.
- D. Create a custom MembershipUser inheriting from MembershipUser.

Answer: C

Question: 31

You create an intranet Web site for management of project documents. You need to enable all users to browse documents on the site. Only members of the administrators group must be able to upload files. Which code segment of the Web.config file should you use?

- A. <allow verbs="GET" users="*" /><deny verbs="POST" users="*" /><allow verbs="POST" roles="Administrators" />
- B. <allow roles="Administrators" /><deny users="*" />
- C. <allow users="Administrators" /><allow users="*" />
- D. <allow verbs ="POST" roles="Administrators" /><deny verbs="POST" users="*" /><allow

verbs="GET" users="*" />

Answer: D

Question: 32

You deploy Company.com's Internet Web site. You need to deny anonymous access to the Web site, allowing only authenticated users. Which code segment should you use?

- A. <authorization> <allow users="?" /> </authorization>
- B. <authorization> <deny users="?" /> </authorization>
- C. <authorization> <deny users="*" /> </authorization>
- D. <authorization> <allow users="*" /> </authorization>

Answer: B

Question: 33

You create a Web site. At the top of every page on the site is the following code segment. <%@ OutputCache Duration="60" VaryByParam="none" %> You need the pages to display the current user's name at the top without turning off the output cache. Which control should you use?

- A. AccessDataSource
- B. Localize
- C. ImportCatalogPart
- D. Substitution

Answer: D

Question: 34

You copy a Web site from a development site to a staging site. You do not have the Web site in a source control application. Another developer begins to fix bugs on the staging site while the development team adds features on the development site. You need to synchronize the development site and the staging site and copy the latest version of each file to both locations. What should you do?

- A. Use the Copy Web tool.
- B. Create a Web Setup project.
- C. Use the Publish Web tool.
- D. Use the command line to XCOPY the files.

Answer: A

Question: 35

You create a Web site for a customer. You need to deploy the Web site to the customer's server without any of the source files for the Web site. You do not want the customer to be able to update any of the static pages on the Web site. Which tool should you use?

- A. aspnet_compiler.exe
- B. InstallUtil.exe
- C. CSC.exe
- D. aspnet_wp.exe

Answer: A

Question: 36

Every morning, you inspect Company.com's development and staging servers. You do this to ensure that the servers have the same versions of all files in your Web application. For security

reasons, you can only access the staging server through FTP. You need to synchronize files from the staging server so that the staging server matches the development server. You want to achieve this goal by using the minimum amount of administrative effort. Which tool should you use?

- A. FTP
- B. XCOPY
- C. the Publish Web tool
- D. the Copy Web tool

Answer: D

Question: 37

You create a large, n-tier Web application that has a custom event tracking system. You need to create a custom event type that enables your event tracking system to record all relevant event details for all types of events. The events must be stored in Microsoft SQL Server. From which base type should your custom event type inherit?

- A. IWebEventCustomEvaluator
- B. WebEventProvider
- C. WebBaseEvent
- D. WebAuditEvent

Answer: C

Question: 38

Your team creates a Web site. The Web site needs to be deployed to a staging server for performance testing.

You plan to make a number of performance enhancements and then retest. You need to compile and copy the Web site to the staging server. What should you do?

- A. Write a batch file that uses aspnet_compiler.exe.
- B. Write a batch file that uses InstallUtil.exe.
- C. Write a batch file that uses Csc.exe.
- D. Write a batch file that uses aspnet_wp.exe.

Answer: A

Question: 39

You create a Web application. You need to turn on Tracing for a page that is not performing well. You must store the trace information in a database for reporting and trending. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add a TraceContextEventHandler to the Trace.TraceFinished event to add the trace records into the database.
- B. Add a system.diagnostics section to the Web.config file. Then add a listener to the new section.
- C. Use the System.Diagnostics.Trace object to connect to a database. Then insert the trace records.
- D. In the Page_Load for the page, place the Trace.Write call into a SQL INSERT statement.

Answer: A, B

Question: 40

You create a Web Form. The Web Form allows users to recover their passwords. You add a PasswordRecovery server control by using the following code segment.

<asp:PasswordRecovery runat="server"/>

You need to ensure that the server control generates a new password and sends it by e-mail to the users e?mail address. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create a valid <smtp> definition in the Web.config file.
- B. Set the passwordFormat attribute of the configured membership provider to Encrypted.
- C. Ensure that the enablePasswordRetrieval attribute of the configured membership provider is set to False.
- D. Ensure that the enablePasswordRetrieval attribute of the configured membership provider is set to True.

Answer: A, C

Question: 41

You are developing a Web application. Your code restricts access to some pages based on the users credentials.

You need to configure IIS to supply the user's Windows credentials to your Web application. These credentials must be encrypted. What should you do?

- A. Enable Anonymous access. Enable Integrated Windows authentication.
- B. Enable Anonymous access. Enable Basic authentication.
- C. Disable Anonymous access. Enable Integrated Windows authentication.
- D. Disable Anonymous access. Enable Basic authentication.

Answer: C

Question: 42

You create an intranet Web site for management of project documents. You need to enable all users to browse documents on the site. Only members of the administrators group must be able to upload files. Which code segment of the Web.config file should you use?

- A. <allow verbs="GET" users="*" /><deny verbs="POST" users="*" /><allow verbs="POST" roles="Administrators" />
- B. <allow roles="Administrators" /><deny users="*" />
- C. <allow users="Administrators" /><allow users="*" />
- D. <allow verbs="POST" roles="Administrators" /><deny verbs="POST" users="*" /><allow verbs="GET" users="*" />

Answer: D

Question: 43

You deploy Company.coms Internet Web site. You need to deny anonymous access to the Web site, allowing only authenticated users. Which code segment should you use?

- A. <authorization> <allow users="?" /> </authorization>
- B. <authorization> <deny users="?" /> </authorization>
- C. <authorization> <deny users="*" /> </authorization>
- D. <authorization> <allow users="*" /> </authorization>

Answer: B

Question: 44

You create a Web site with membership and personalization enabled. You must use an existing CRM database for storing the membership information. You need to implement the Membership Provider. What should you do?

- A. Modify the connection string in the Web.config file to connect to the CRM database.
- B. Add new a SqlMembershipProvider to the Web.config file.
- C. Create a custom Membership Provider inheriting from MembershipProvider.
- D. Create a custom MembershipUser inheriting from MembershipUser.

Answer: C

Question: 45

You create a Web site that is for members only. The behavior of the Web site changes according to the role of the user. The Web site uses the ASP.NET Membership control for creation of user accounts. You need to find out whether a user is a member of a particular role. What should you do?

- A. Pass the user names and passwords to Membership.ValidateUser.
- B. Pass the role names to User.IsInRole.
- C. Pass the role names to Roles.RoleExists.
- D. Pass the user names to Membership.GetUser.

Answer: B

Question: 46

You are developing a Web application. The Web application uses the following code segment to connect to a database.conn.

```
ConnectionString = "Server=(local); " & _  
"Initial Catalog=Company;  
Integrated Security=SSPI;"
```

You create logins in Microsoft SQL Server for each user of the Web application. When you run the Web application, you receive the following error message.

"Login failed for user 'COMPUTERNAME\ASPNET'."

You need to resolve this error. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. In IIS, deny anonymous access.
- B. In the Web.config file, enable impersonation.
- C. In IIS, allow anonymous access.
- D. In the Web.config file, disable impersonation.
- E. In the Web.config file, set the authentication mode to Windows.

Answer: A, B

Question: 47

You are using the ASP.NET membership APIs to manage user accounts for a Web site. The Web.config file contains the definition for the membership provider. After modifying the Web.config file to enable password recovery, you create a PasswordReset.aspx file. You need to enable users to reset their passwords online. The new passwords must be sent to them by e-mail after they have logged on through the Login.aspx page. In addition, users must be required to answer their secret questions before resetting their passwords. Which code logic should you use?

- A. Add a PasswordRecovery element to the PasswordReset.aspx file and configure it.
- B. Modify the Page_Load to set the Membership.EnablePasswordReset to True in the PasswordReset.aspx file.
- C. Add a ChangePassword element to the PasswordReset.aspx file and configure it.
- D. Modify the Login.aspx form to include a Required Field validator on the secret question answer text box. Then redirect users to the PasswordReset.aspx file.

Answer: A

Question: 48

You create a Web site that you must copy from a development server to a testing server, along with all source files. You do not have terminal access to the testing server. You need to create the virtual directory. Then you must copy the Web site to the virtual directory on the testing server without precompiling the site. What should you do?

- A. Use the Publish Web tool.
- B. Use the Copy Web tool.
- C. Use the command line to XCOPY the files.
- D. Create a Web Setup project.

Answer: B

Question: 49

Your team creates a Web site. The Web site needs to be deployed to a staging server for performance testing.

You plan to make a number of performance enhancements and then retest. You need to compile and copy the Web site to the staging server. What should you do?

- A. Write a batch file that uses aspnet_compiler.exe.
- B. Write a batch file that uses InstallUtil.exe.
- C. Write a batch file that uses Csc.exe.
- D. Write a batch file that uses aspnet_wp.exe.

Answer: A

Question: 50

You create a large, n-tier Web application that has a custom event tracking system. You need to create a custom event type that enables your event tracking system to record all relevant event details for all types of events. The events must be stored in Microsoft SQL Server. From which base type should your custom event type inherit?

- A. IWebEventCustomEvaluator
- B. WebEventProvider
- C. WebBaseEvent
- D. WebAuditEvent

Answer: C

Question: 51

You create a Web application. The Web application enables users to change fields in their personal profiles. Some of the changes are not persisting in the database. You need to raise a custom event to track each change that is made to a user profile so that you can locate the error. Which event should you use?

- A. WebAuditEvent
- B. WebEventManager
- C. WebBaseEvent
- D. WebRequestEvent

Answer: C

Question: 52

You are deploying a Web site to a server managed by a hosting company. The only access you have to the server is through FTP. You need to precompile and deploy the Web site without its source files. What should you do?

- A. Use the Copy Web tool.
- B. Use the Publish Web tool.
- C. Use XCOPY.
- D. Use the Web Setup project Installer.

Answer: B

Question: 53

You are working with a team of developers on a Web site. You copy the Web site from the staging server to work on it locally. While making changes, you create new C# source code files and delete old ones. You need to ensure that your changes propagate to the staging server without affecting any files that you have not modified. Which tool should you use?

- A. XCOPY
- B. the Copy Web tool
- C. the Publish Web tool
- D. a Web Setup project

Answer: B

Question: 54

You create a Web site. At the top of every page on the site is the following code segment.<%@OutputCache Duration="60" VaryByParam="none" %>You need the pages to display the current user's name at the top without turning off the output cache. Which control should you use?

- A. AccessDataSource
- B. Localize
- C. ImportCatalogPart
- D. Substitution

Answer: D

Question: 55

You copy a Web site from a development site to a staging site. You do not have the Web site in a source control application. Another developer begins to fix bugs on the staging site while the development team adds features on the development site. You need to synchronize the development site and the staging site and copy the latest version of each file to both locations. What should you do?

- A. Use the Copy Web tool.
- B. Create a Web Setup project.
- C. Use the Publish Web tool.
- D. Use the command line to XCOPY the files.

Answer: A

Question: 56

You create a Web application. You need to turn on Tracing for a page that is not performing well. You must store the trace information in a database for reporting and trending. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add a TraceContextEventHandler to the Trace.TraceFinished event to add the trace records into the database.
- B. Add a system.diagnostics section to the Web.config file. Then add a listener to the new section.

- C. Use the System.Diagnostics.Trace object to connect to a database. Then insert the trace records.
- D. In the Page_Load for the page, place the Trace.Write call into a SQL INSERT statement.

Answer: A, B

Question: 57

Your team creates a Web site. The Web site needs to be deployed to a staging server for performance testing. You plan to make a number of performance enhancements and then retest. You need to compile and copy the Web site to the staging server. What should you do?

- A. Write a batch file that uses aspnet_compiler.exe.
- B. Write a batch file that uses InstallUtil.exe.
- C. Write a batch file that uses Csc.exe.
- D. Write a batch file that uses aspnet_wp.exe.

Answer: A

Question: 58

You create a large, n-tier Web application that has a custom event tracking system. You need to create a custom event type that enables your event tracking system to record all relevant event details for all types of events. The events must be stored in Microsoft SQL Server. From which base type should your custom event type inherit?

- A. IWebEventCustomEvaluator
- B. WebEventProvider
- C. WebBaseEvent
- D. WebAuditEvent

Answer: C

Question: 59

Every morning, you inspect Company.com's development and staging servers. You do this to ensure that the servers have the same versions of all files in your Web application. For security reasons, you can only access the staging server through FTP. You need to synchronize files from the staging server so that the staging server matches the development server. You want to achieve this goal by using the minimum amount of administrative effort. Which tool should you use?

- A. FTP
- B. XCOPY
- C. the Publish Web tool
- D. the Copy Web tool

Answer: D

Question: 60

You create a Web site for a customer. You need to deploy the Web site to the customers server without any of the source files for the Web site. You do not want the customer to be able to update any of the static pages on the Web site. Which tool should you use?

- A. aspnet_compiler.exe
- B. InstallUtil.exe
- C. CSC.exe
- D. aspnet_wp.exe

Answer: A

Question: 61

You create Web sites for Company.com. You apply a consistent design to the pages and controls of the Web sites. You need to make style changes to all of the Web sites on the Web server. You want to achieve this goal without having to edit the individual pages on each Web site. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Place a theme in the App_Themes directory under the application root directory.
- B. Place a theme under an ASP.NETClientFiles folder under the ASP.NET installation directory.
- C. Assign a theme by setting the <%@ Page Theme="..." %> directive to the name of the application theme.
- D. Assign a theme by specifying the <pages theme="..." /> section in the Web.config file.

Answer: B, D

Question: 62

You create a master page named Article.master. Article.master serves as the template for articles on your Web site. The master page uses the following page directives.

```
<%@ Master Language="C#"
```

```
Src="~/article.master.cs" Inherits="article" %>
```

You need to create a content page that uses the master page as a template. In addition, you need to use a single master page for all devices that access the Web site. Which code segment should you use?

- A. <%@ Page Language="C#" Theme="article"%>
- B. <%@ Page Language="C#" MasterPageFile="~/article.master"%>
- C. <%@ Page Language="C#" ie:MasterPageFile="~/article.master"%>
- D. <%@ Page Language="C#" all:MasterPageFile="~/article.master"%>

Answer: B

Question: 63

You create a Web site that stores users' active themes in user profile objects. You need to apply users' preferred themes when they log on to the Web site. What should you do?

- A. In the InitComplete event handler, set the Theme property of the Page object based on the user profile.
- B. In the PreLoad event handler, set the Theme property of the Page object based on the user profile.
- C. In the OnLoad event handler, set the Theme property of the Page object based on the user profile.
- D. In the PreInit event handler, set the Theme property of the Page object based on the user profile.

Answer: D

Question: 64

You create a Web Form that contains connected Web Parts. You write the following declaration in your Web Form.

```
<asp:WebPartConnection ID="WebPartConnection1" ProviderID="customerPart"
ConsumerID="ordersPart" />
```

You need to ensure that your Web Part connection is valid. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Include a data source identified as "WebPartConnection1" on the Web Form.
- B. Include a Web Part identified as "customerPart" on the Web Form.

- C. Include a Web Part identified as "ordersPart" on the Web Form.
- D. Ensure that you declare an interface named "IOOrdersPart".
- E. Ensure that you declare an interface named "ICustomerPart".
- F. Ensure that each Web Part declares either a GetInterface or ProvideInterface method.

Answer: B, C

Question: 65

You create a Web site. You add an EditorZone control to the home page on the Web site. You need to enable users to customize the size and location of the Web Parts on their home pages. Which two controls should you add to the EditorZone control? (Each correct answer presents part of the solution. Choose two.)

- A. BehaviorEditorPart
- B. AppearanceEditorPart
- C. PropertyGridEditorPart
- D. LayoutEditorPart

Answer: B, D

Question: 66

You create a Web application to process XML documents. The Web application receives XML document files from several sources, reads them, and stores them in a Microsoft SQL Server database. The Web application parses all incoming data files to ensure that they conform to an XML schema. You need to find all validation errors in the XML document. What should you do?

- A. Load the XML data by using an instance of the XmlDocument class and specify a location for the application schema.
- B. Configure the ValidationEventHandler in the XmlReaderSettings of the XmlReader object.
- C. Read the XML file into a DataSet object and set the EnforceConstraints property to True.
- D. Read the XML file into a DataSet object. Handle the DataSet.MergeFailed event to parse the data that does not conform to the XML schema.

Answer: B

Question: 67

You are creating a Web application that will run on an intranet. The Web application reads comma-delimited text files. The text files reside in a subdirectory below the Web application's root directory. Users must not be able to navigate directly to these files in a Web browser unless they are members of the Accounting role. You need to write an ASP.NET HTTP handler that will use the FileAuthorizationModule class. Which form of authentication should you use?

- A. Anonymous
- B. Certificate
- C. Forms
- D. Microsoft Windows Integrated Security

Answer: D

Question: 68

You create a Web Form. The Web Form allows users to log on to a Web site. You implement the login logic using a Login control named Login1. The membership data for the application is stored in a SQL Express database in the App_Data directory. You need to configure your application so that the membership data is stored in a local Microsoft SQL Server database. You add the following code segment to the Web.config file.

```
<membership defaultProvider="MySqlProvider">
```

```
<providers>
<add name="MySqlProvider" type="System.Web.Security.SqlMembershipProvider, System.Web,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
connectionStringName="MySqlProviderConnection"/>
</providers></membership>
```

Which two additional actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Use Aspnet_regsql.exe to create the Microsoft SQL Server database.
- B. Set Login1's MembershipProvider property to MySqlProviderConnection.
- C. Add the following code segment to the Web.config file. <connectionStrings> <add name="MySqlProviderConnection" connectionString="valid connection string" /></connectionStrings>
- D. Add the following code segment to the Web.config file. <appSettings><add key="MySqlProviderConnection" value="valid connection string" /></appSettings>
- E. In the ASP.NET configuration settings within IIS, ensure that Role Management Enabled is selected.
- F. Use the Web Site Administration Tool to select AspNetSqlMembershipProvider as the membership provider for your application.

Answer: B, C

Question: 69

You create a Web site. The Web site has many predefined roles and associated users that will be used for security purposes. You need to manage these roles and user accounts. Which tool should you use?

- A. the Microsoft .NET Configuration tool
- B. the Code Access Security Policy tool
- C. the ASP.NET IIS Registration tool
- D. the Web Site Administration Tool

Answer: D

Question: 70

You are creating a Web Form. The Web Form allows users to select a category from a DropDownList control. Valid categories are stored in a database table. A SqlDataSource control retrieves the category data. You set the SelectQuery property of the SqlDataSource control by using the following code segment.

```
SELECT [CategoryId], [CategoryName] FROM [Categories]
```

You need to bind the DropDownList control to the data source control so that the category name is displayed to the user. The ID of the category must be stored as the user's selected item. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Set the DataSourceID property of the DropDownList control to the identifier of the SqlDataSource control.
- B. B. Set the DataMember property of the DropDownList control to the identifier of the SqlDataSource control.
- C. Set the DataValueField property of the DropDownList control to CategoryID.
- D. Set the DataTextField property of the DropDownList control to CategoryName.
- E. Set the DataValueField property of the DropDownList control to CategoryName.
- F. Set the DataTextField property of the DropDownList control to CategoryID.

Answer: A, C, D

Question: 71

You write a Web application. This application must support multiple languages. You store the localized strings in the application as resources. You want these resources to be accessed according to a users language preference. You create the following resource files in the App_GlobalResources folder of your application.myStrings.resxmyStrings.en-CA.resxmyString.en-US.resxmyStrings.fr-CA.resxmyStrings.es-MX.resxEach resource file stores a localized version of the following strings: Name, E-mail, Address, and Phone. You create a Web Form that contains one label for each of these strings. You need to ensure that the correct localized version of each string is displayed in each label, according to a users language preference. What should you do?

- A. Add the following configuration section to the Web.config file. <globalization culture="Auto" />
- B. B. Set the directive for each page in your site as follows: <%@ Page UICulture="Auto" %>
- C. Add the following code segment to the pages load event. lblName.Text = "{myStrings}Name" lblAddress.Text = "{myStrings}Address" lblEmail.Text = "{myStrings}Email" lblPhone.Text = "{myStrings}Phone"
- D. Add the following code segment to the pages load event. lblName.Text = Resources.myStrings.Name lblAddress.Text = Resources.myStrings.Address lblEmail.Text = Resources.myStrings.Email lblPhone.Text = Resources.myStrings.Phone

Answer: D

Question: 72

You write a logging function for a Web Form. You call the logging function from the Page_Unload event handler. You test the Web Form and notice that the Page_Unload event handler does not call the logging function. You need to ensure that the logging function is called. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Set the Page attribute to AutoEventWireup="False". Remove the attribute onunload="Page_Unload" from the Web Form element.
- B. Set the Page attribute to AutoEventWireup="False". Add the attribute OnUnload="Page_Unload" to the Web Form element.
- C. Set the Page attribute to AutoEventWireup="False". Add the Web Form attribute autocomplete=on.
- D. Set the Page attribute to AutoEventWireup="True".

Answer: B, D

Question: 73

You develop a Web application. Your application contains two settings in the Web.config file. You deploy your application to production. You need to modify the application settings in the production environment without manually editing the XML markup in the Web.config file. What should you do?

- A. Modify the application settings by using the Web Site Administration Tool.
- B. Modify the application settings by using the Visual Studio property page editor for the project.
- C. Modify the application settings by using the resource editor.
- D. Modify the application settings by using the Visual Studio start options editor.

Answer: A

Question: 74

You create a Web Form for the acceptance of donations. Users type donation amounts by using a TextBox control named txtAmount. The donation amount must be between 10 dollars and 10,000 dollars. You add the following RequiredFieldValidator and RangeValidator.

```
<asp:RangeValidator ID="valAmount" runat="server" ControlToValidate="txtAmount"
ErrorMessage="The valid range is 10 to 10000" MaximumValue="10000" MinimumValue="10"
Type="Currency">
</asp:RangeValidator><asp:RequiredFieldValidator ID="valAmountRequired" runat="server"
ControlToValidate="txtAmount" ErrorMessage="Please enter a value">
</asp:RequiredFieldValidator>
```

During testing you learn that when users fail to enter values before submitting the Web Form to the server, the message "Please enter a value" appears, as shown below. You need to ensure that the message appears immediately following the txtAmount TextBox control without extra spaces. What should you do?

- A. In the RangeValidator, set the Display property to Dynamic.
- B. In the RangeValidator, set the Display property to Static.
- C. In the RequiredFieldValidator, set the Display property to Dynamic.
- D. In the RequiredFieldValidator, set the Display property to Static.

Answer: A

Question: 75

You create a Web Form that contains a text box named txtDate. You want the text box to allow users to enter any valid date. You need to use an ASP.NET validation control to ensure that only valid date values are submitted to the server. What should you do?

- A. Add a CompareValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its Operator property to DataTypeCheck.
- B. Add a RangeValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its MinimumValue property to 01/01/1900 and its MaximumValue to the current date.
- C. Add a CustomValidator control to the Web Form. Set its ControlToValidate property to txtDate. Write a function in the partial class that verifies the values as dates and returns a Boolean variable. Set the CustomValidators ClientValidationFunction to the name of your function.
- D. Add a RegularExpressionValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set the ValidationExpression property to ensure that the users input follows the format of nn-nn-nnnn, where n represents a number from 0 through 9.

Answer: A

Question: 76

You create a Web Form. You need to add controls that use adaptive rendering to display content. The type of content rendered must depend on the device that is requesting the page. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Add custom controls that emit XHTML to the Web Form.
- B. Add custom controls that emit WML to the Web Form.
- C. Add mobile controls to the Web Form.
- D. Add Web server controls to the Web Form.

Answer: C, D

Question: 77

You create a mobile Web application. You need to use a Command control to post user input from the UI elements back to the server. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Place the Command control within an instance of the System.Web.UI.MobileControls.SelectionList control.
- B. Place the Command control within an instance of the System.Web.UI.MobileControls.ObjectList control.
- C. Place the Command control within an instance of the System.Web.UI.MobileControls.Form control.
- D. Place the Command control within an instance of the System.Web.UI.MobileControls.Panel control.

Answer: C, D

Question: 78

You create a server control that inherits from WebControl. You need to enable the server control to emit markup for a new kind of mobile device. You must not alter the code in the server controls. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

- A. Create a class that inherits HtmlTextWriter and that can emit the new markup.
- B. Create a class that inherits StreamWriter and that can emit the new markup.
- C. Reference the class in the <capabilities> element of the new device's browser definition file.
- D. Reference the class in the <controlAdapters> element of the new device's browser definition file.

Answer: A, D

Question: 79

You are creating a mobile Web Form that displays Company.com's logo. The Web Form contains the following image control.

```
<mobile:Image ID="ImageLogo" runat=server ImageURL="logobw.gif"></mobile:Image>
```

You need to display the logo in black and white on devices that do not support color.

In addition, you need to display the logo in color on devices that support color. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add a method to the code-behind file named isColor. Ensure that it returns a Boolean value and takes an instance of the MobileCapabilities class and a string.
- B. Add a method to the code-behind file named isColor. Ensure that it uses the MobileCapabilities class and returns a string indicating the URL of the image to display.
- C. Add the following code segment between your image control definition tags.
<DeviceSpecific> <Choice Filter="isColor" ImageURL="logo-color.gif" /></DeviceSpecific>
- D. Add the following node to the deviceFilters element within the Web.config file. <filter name="isColor" compare="IsColor" argument="true" />

Answer: A, C

Question: 80

You are transferring records from one database to another. You need to decide whether you can use the SqlBulkCopy class to transfer the records. What should you do?

- A. Ensure that the source database is Microsoft SQL Server.
- B. Ensure that the destination database is Microsoft SQL Server.

- C. Ensure that the column names in the source table match the column names in the destination table.
- D. Ensure that the bulk copy program (bcp) utility is installed on the destination server.

Answer: B

Question: 81

You create a Web Form that contains a TreeView control. The TreeView control allows users to navigate within the Marketing section of your Web site. The following XML defines the site map for your site.

```
<siteMapNode url="~/default.aspx" title="Home" description="Site Home Page">
<siteMapNode url="Sales.aspx" title="Sales" description="Sales Home">
<siteMapNode url="SalesWest.aspx" title="West Region" description="Sales for the West
Region" />
<siteMapNode url="SalesEast.aspx" title="East Region" description="Sales for the East Region"
/>
</siteMapNode>
<siteMapNode url="Marketing.aspx" title="Marketing" description="Marketing Home">
<siteMapNode url="MarketNational.aspx" title="National Campaign" description="National
marketing campaign" />
<siteMapNode url="MarketMidwest.aspx" title="Midwest Campaign" description="Midwest region
marketing campaign" />
<siteMapNode url="MarketSouth.aspx" title="South Campaign" description="South region
marketing campaign" />
</siteMapNode></siteMapNode>
```

You need to bind the TreeView control to the site map data so that users can navigate only within the Marketing section. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Add a SiteMapDataSource control to the Web Form and bind the TreeView control to it.
- B. Add a SiteMapPath control to the Web Form and bind the TreeView control to it.
- C. Embed the site map XML within the SiteMap node of a Web.sitemap file.
- D. Embed the site map XML within the AppSettings node of a Web.config file.
- E. Set the StartingNodeUrl property of the SiteMapDataSource control to ~/Marketing.aspx.
- F. Set the SkipLinkText property of the SiteMapPath control to Sales.

Answer: A, C, E

Question: 82

Exhibit: *** MISSING ***

You are developing a Web application. The Web application uses a GridView control to display data. You build your Web Forms for the Web application by dragging and dropping tables from the Data Connections tree in Server Explorer. You need to add a connection to your data by using the Add Connection dialog box as shown in the exhibit.

During the process, you need to configure the .NET Data Provider that you use to create the data source objects.

What should you do?

- A. Right-click the connection, and click Properties. Modify the Provider property of the data connection.
- B. Click the Change button, and change the data provider for the selected data source.
- C. Click the Advanced button, and change the Data Source property to the target provider.
- D. Click the Advanced button, and change the Application Name property to the target provider.

Answer: B

Question: 83

You create a Web Form. The Web Form allows users to log on to a Web site. You implement the login logic using a Login control named Login1.

The membership data for the application is stored in a SQL Express database in the App_Data directory.

You need to configure your application so that the membership data is stored in a local Microsoft SQL Server database.

You add the following code segment to the Web.config file.

```
<membership defaultProvider="MySqlProvider">
  <providers>
    <add name="MySqlProvider"
      type="System.Web.Security.SqlMembershipProvider, System.Web,
      Version=2.0.0.0, Culture=neutral,
      PublicKeyToken=b03f5f7f11d50a3a"
      connectionStringName="MySqlProviderConnection"/>
  </providers>
</membership>
```

Which two additional actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Use AspNet_regsql.exe to create the Microsoft SQL Server database.
- B. Set Login1's MembershipProvider property to MySqlProviderConnection.
- C. Add the following code segment to the Web.config file. <connectionStrings> <add name="MySqlProviderConnection" connectionString="valid connection string" /></connectionStrings>
- D. Add the following code segment to the Web.config file. <appSettings><add key="MySqlProviderConnection" value="valid connection string" /></appSettings>
- E. In the ASP.NET configuration settings within IIS, ensure that Role Management Enabled is selected.
- F. Use the Web Site Administration Tool to select AspNetSqlMembershipProvider as the membership provider for your application.

Answer: B, C

Question: 84

You are creating a Web application that will run on an intranet. The Web application reads comma-delimited text files. The text files reside in a subdirectory below the Web application's root directory. Users must not be able to navigate directly to these files in a Web browser unless they are members of the Accounting role. You need to write an ASP.NET HTTP handler that will use the FileAuthorizationModule class. Which form of authentication should you use?

- A. Anonymous
- B. Certificate
- C. Forms
- D. Microsoft Windows Integrated Security

Answer: D

Question: 85

You create a Web site that is for members only. The behavior of the Web site changes according to the role of the user. The Web site uses the ASP.NET Membership control for creation of user accounts. You need to find out whether a user is a member of a particular role. What should you do?

- A. Pass the user names and passwords to Membership.ValidateUser.
- B. Pass the role names to User.IsInRole.

- C. Pass the role names to Roles.RoleExists.
- D. Pass the user names to Membership.GetUser.

Answer: B

Question: 86

You create a Web site. The Web site has many predefined roles and associated users that will be used for security purposes. You need to manage these roles and user accounts. Which tool should you use?

- A. the Microsoft .NET Configuration tool
- B. the Code Access Security Policy tool
- C. the ASP.NET IIS Registration tool
- D. the Web Site Administration Tool

Answer: D

Question: 87

You are creating a Web Form. The Web Form allows users to select a category from a DropDownList control. Valid categories are stored in a database table. A SqlDataSource control retrieves the category data. You set the SelectQuery property of the SqlDataSource control by using the following code segment.

```
SELECT [CategoryID], [CategoryName] FROM [Categories]
```

You need to bind the DropDownList control to the data source control so that the category name is displayed to the user. The ID of the category must be stored as the user's selected item. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Set the DataSourceID property of the DropDownList control to the identifier of the SqlDataSource control.
- B. Set the DataMember property of the DropDownList control to the identifier of the SqlDataSource control.
- C. Set the DataValueField property of the DropDownList control to CategoryID.
- D. Set the DataTextField property of the DropDownList control to CategoryName.
- E. Set the DataValueField property of the DropDownList control to CategoryName.
- F. Set the DataTextField property of the DropDownList control to CategoryID.

Answer: A, C, D

Question: 88

You are transferring records from one database to another. You need to decide whether you can use the SqlBulkCopy class to transfer the records. What should you do?

- A. Ensure that the source database is Microsoft SQL Server.
- B. Ensure that the destination database is Microsoft SQL Server.
- C. Ensure that the column names in the source table match the column names in the destination table.
- D. Ensure that the bulk copy program (bcp) utility is installed on the destination server.

Answer: B

Question: 89

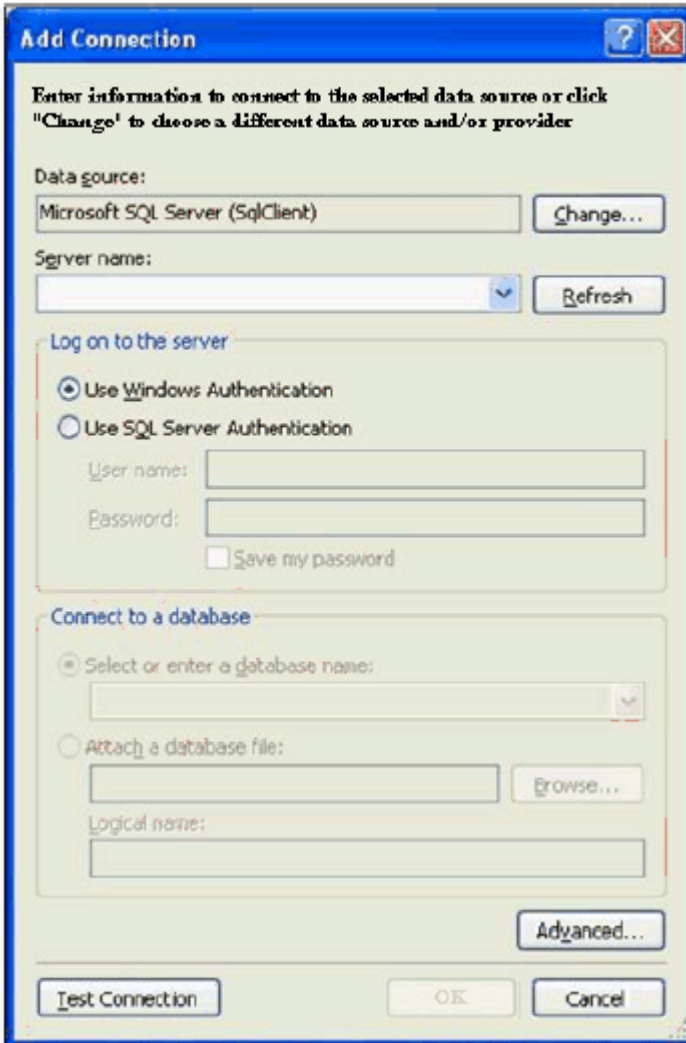
You create a Web application to process XML documents. The Web application receives XML document files from several sources, reads them, and stores them in a Microsoft SQL Server database. The Web application parses all incoming data files to ensure that they conform to an XML schema. You need to find all validation errors in the XML document. What should you do?

- A. Load the XML data by using an instance of the XmlDocument class and specify a location for the application schema.
- B. Configure the ValidationEventHandler in the XmlReaderSettings of the XmlReader object.
- C. Read the XML file into a DataSet object and set the EnforceConstraints property to True.
- D. Read the XML file into a DataSet object. Handle the DataSet.MergeFailed event to parse the data that does not conform to the XML schema.

Answer: B

Question: 90

Exhibit:



You are developing a Web application. The Web application uses a GridView control to display data. You build your Web Forms for the Web application by dragging and dropping tables from the Data Connections tree in Server Explorer. You need to add a connection to your data by using the Add Connection dialog box as shown in the exhibit. During the process, you need to configure the .NET Data Provider that you use to create the data source objects. What should you do?

- A. Right-click the connection, and click Properties. Modify the Provider property of the data connection.
- B. Click the Change button, and change the data provider for the selected data source.

- C. Click the Advanced button, and change the Data Source property to the target provider.
- D. Click the Advanced button, and change the Application Name property to the target provider.

Answer: B

Question: 91

You create a Web Form that contains a TreeView control. The TreeView control allows users to navigate within the Marketing section of your Web site. The following XML defines the site map for your site.

```
<siteMapNode url="~/default.aspx" title="Home" description="Site Home Page">
<siteMapNode url="Sales.aspx" title="Sales" description="Sales Home">
<siteMapNode url="SalesWest.aspx" title="West Region" description="Sales for the West
Region" />
<siteMapNode url="SalesEast.aspx" title="East Region" description="Sales for the East Region"
/> </siteMapNode>
<siteMapNode url="Marketing.aspx" title="Marketing" description="Marketing Home">
<siteMapNode url="MarketNational.aspx" title="National Campaign" description="National
marketing campaign" />
<siteMapNode url="MarketMidwest.aspx" title="Midwest Campaign" description="Midwest region
marketing campaign" />
<siteMapNode url="MarketSouth.aspx" title="South Campaign" description="South region
marketing campaign" />
</siteMapNode>
</siteMapNode>
```

You need to bind the TreeView control to the site map data so that users can navigate only within the Marketing section.

Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Add a SiteMapDataSource control to the Web Form and bind the TreeView control to it.
- B. Add a SiteMapPath control to the Web Form and bind the TreeView control to it.
- C. Embed the site map XML within the SiteMap node of a Web.sitemap file.
- D. Embed the site map XML within the AppSettings node of a Web.config file.
- E. Set the StartingNodeUrl property of the SiteMapDataSource control to ~/Marketing.aspx.
- F. Set the SkipLinkText property of the SiteMapPath control to Sales.

Answer: A, C, E

Question: 92

You are using the ASP.NET membership APIs to manage user accounts for a Web site. The Web.config file contains the definition for the membership provider. After modifying the Web.config file to enable password recovery, you create a PasswordReset.aspx file. You need to enable users to reset their passwords online. The new passwords must be sent to them by e-mail after they have logged on through the Login.aspx page. In addition, users must be required to answer their secret questions before resetting their passwords. Which code logic should you use?

- A. Add a PasswordRecovery element to the PasswordReset.aspx file and configure it.
- B. Modify the Page_Load to set the Membership.EnablePasswordReset to True in the PasswordReset.aspx file.
- C. Add a ChangePassword element to the PasswordReset.aspx file and configure it.
- D. Modify the Login.aspx form to include a Required Field validator on the secret question answer text box. Then redirect users to the PasswordReset.aspx file.

Answer: A

Question: 93

You are developing a Web application. The Web application uses the following code segment to connect to a database.

```
conn.ConnectionString = "Server=(local);Initial Catalog=Company;Integrated Security=SSPI;";
```

You create logins in Microsoft SQL Server for each user of the Web application. When you run the Web application, you receive the following error message. "Login failed for user 'COMPUTERNAME\ASPNET'." You need to resolve this error. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. In IIS, deny anonymous access.
- B. In the Web.config file, enable impersonation.
- C. In IIS, allow anonymous access.
- D. In the Web.config file, disable impersonation.
- E. In the Web.config file, set the authentication mode to Windows.

Answer: A, B

Question: 94

You develop a Web application. Your application contains two settings in the Web.config file. You deploy your application to production. You need to modify the application settings in the production environment without manually editing the XML markup in the Web.config file. What should you do?

- A. Modify the application settings by using the Web Site Administration Tool.
- B. Modify the application settings by using the Visual Studio property page editor for the project.
- C. Modify the application settings by using the resource editor.
- D. Modify the application settings by using the Visual Studio start options editor.

Answer: A

Question: 95

You create a Web Form that contains a text box named txtDate. You want the text box to allow users to enter any valid date. You need to use an ASP.NET validation control to ensure that only valid date values are submitted to the server. What should you do?

- A. Add a CompareValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its Operator property to DataTypeCheck.
- B. Add a RangeValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its MinimumValue property to 01/01/1900 and its MaximumValue to the current date.
- C. Add a CustomValidator control to the Web Form. Set its ControlToValidate property to txtDate. Write a function in the partial class that verifies the values as dates and returns a Boolean variable. Set the CustomValidators ClientValidationFunction to the name of your function.
- D. Add a RegularExpressionValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set the ValidationExpression property to ensure that the users input follows the format of nn-nn-nnnn, where n represents a number from 0 through 9.

Answer: A

Question: 96

You write a logging function for a Web Form. You call the logging function from the Page_Unload event handler. You test the Web Form and notice that the Page_Unload event handler does not call the logging function. You need to ensure that the logging function is called. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Set the Page attribute to AutoEventWireup="False". Remove the attribute

- onunload="Page_Unload" from the Web Form element.
- B. Set the Page attribute to AutoEventWireup="False". Add the attribute OnUnload="Page_Unload" to the Web Form element.
- C. Set the Page attribute to AutoEventWireup="False". Add the Web Form attribute autocomplete=on.
- D. Set the Page attribute to AutoEventWireup="True".

Answer: B, D

Question: 97

Exhibit:



The exhibit shows a web form with a text input field. To the right of the text field, the message "Please enter a value" is displayed, indicating a validation error from a RequiredFieldValidator.

You create a Web Form for the acceptance of donations. Users type donation amounts by using a TextBox control named txtAmount. The donation amount must be between 10 dollars and 10,000 dollars.

You add the following RequiredFieldValidator and RangeValidator.

```
<asp:RangeValidator
ID="valAmount"
runat="server" ControlToValidate="txtAmount"
ErrorMessage="The valid range is 10 to 10000"
MaximumValue="10000" MinimumValue="10"
Type="Currency">
</asp:RangeValidator>
<asp:RequiredFieldValidator
ID="valAmountRequired"
runat="server" ControlToValidate="txtAmount"
ErrorMessage="Please enter a value">
</asp:RequiredFieldValidator>
```

During testing you learn that when users fail to enter values before submitting the Web Form to the server, the message "Please enter a value" appears, as shown in the exhibit.

You need to ensure that the message appears immediately following the txtAmount TextBox control without extra spaces.

What should you do?

- A. In the RangeValidator, set the Display property to Dynamic.
- B. In the RangeValidator, set the Display property to Static.
- C. In the RequiredFieldValidator, set the Display property to Dynamic.
- D. In the RequiredFieldValidator, set the Display property to Static.

Answer: A

Question: 98

You are developing a Web control. The Web control captures user address information in a Web application.

You create a class named AddressControl that inherits from CompositeControl. This control consists of child controls. You need to ensure that the child controls are properly output to the browser. Developers using your control must be able to set the appropriate text for labels. In addition, they must be able to pull user address information from the associated text boxes during postback. What should you do?

- A. Override the EnsureChildControls method of the base class. Add the child controls to the base container.
- B. Override the CreateControlCollection method of the base class. Add the child controls to the

ControlCollection class.

C. Override the CreateChildControls method of the base class. Add the child controls to the base container.

D. Override the DataBindChildren method of the base class. Add the child controls to the ControlCollection class.

Answer: C

Question: 99

You are creating a templated Web control for use in your Web application. You need to add the Web control to your Web application pages without compiling your control into a .dll file. What should you do?

A. Ensure that the Web control inherits from the WebControl class.

B. Ensure that the Web control inherits from the Control class.

C. Ensure that the Web control inherits from the CompositeControl class.

D. Ensure that the Web control inherits from the UserControl class.

Answer: D

Question: 100

You create a Web Form with several UI elements on it. During a code review, you realize that some of the UI elements can be grouped into user controls. You need to create a Web control to group the UI elements that do not require server-side processing. Doing so will enable you to programmatically add or remove the UI elements from the page. You want to maintain the UI elements' style properties. What should you do?

A. Use System.Web.UI.TemplateControl to group the UI elements.

B. Use System.Web.UI.HtmlControls.HtmlControl to group the UI elements.

C. Use System.Web.UI.LiteralControl to group the UI elements.

D. Use System.Web.UI.WebControls.Literal to group the UI elements.

Answer: C

Question: 101

You create a Web server control named ContosoControls. You add a Web custom control named ContosoMailer to it. You then distribute the Web Control Library files to your team. You need to provide your team with the correct procedure for adding the Web Control Library to the items in the toolbox of Microsoft Visual Studio .NET. Which procedure should you provide to the team?

A. Within the toolbox, click Choose Items and then browse to and select the ContosoControls user control.

B. Within the toolbox, click Choose Items and then browse to and select the ContosoMailer user control.

C. Right-click Web Project, click Add Reference, and then browse to and select the ContosoControls.dll file.

D. Within the toolbox, click Choose Items and then browse to and select the ContosoControls.dll file.

Answer: D

Question: 102

You are creating a custom control. The UI of the control must contain several text boxes and two buttons. The control must be available in the global assembly cache for reuse across multiple Web applications. You need to achieve this functionality by using the minimum amount of code. What should you do?

- A. Create a control that derives from System.Web.UI.Control.
- B. Create a control that derives from System.Web.UI.WebControls.CompositeControl.
- C. Create a control that derives from System.Web.UI.WebControls.WebControl.
- D. Create a control that derives from System.Web.UI.UserControl.

Answer: B

Question: 103

You have a Web application that is configured for personalization. You need to access personalization data from one of the pages of the Web application by using the minimum amount of administrative effort. What should you do?

- A. Access the personalization data from the Session property of the HttpContext object.
- B. Access the personalization data from the Application property of the HttpContext object.
- C. Access the personalization data from the Cache property of the HttpContext object.
- D. Access the personalization data from the Profile property of the HttpContext object.

Answer: D

Question: 104

You develop a Web application that contains two master pages. You need to dynamically set the master page when a user views pages in the application. What should you do?

- A. Set Page.MasterPageFile in the Page's Page_Init event.
- B. Set Page.MasterPageFile in the Page's OnInit event.
- C. Set Page.MasterPageFile in the Page's Page_Load event.
- D. Set Page.MasterPageFile in the Page's Page_PreInit event.

Answer: D

Question: 105

You create a Web Form. The Web Form contains two Web Parts named CustomerPart and OrdersPart. CustomerPart contains a drop-down list of customers. OrdersPart contains a list of orders that a customer has placed. You need to create a static connection between CustomerPart and OrdersPart. When a user selects a customer from CustomerPart, OrdersPart must update. Which four actions should you perform? (Each correct answer presents part of the solution. Choose four.)

- A. Add the ConnectionProvider attribute to OrdersPart.
- B. Add the ConnectionProvider attribute to CustomerPart.
- C. Add the ConnectionConsumer attribute to CustomerPart.
- D. Add the ConnectionConsumer attribute to OrdersPart.
- E. Add OrdersPart and CustomerPart to the WebParts directory.
- F. Add OrdersPart and CustomerPart to the App_Code directory.
- G. Declare the connections within a StaticConnections subtag of a WebPartZone class.
- H. Declare the connections within a StaticConnections subtag of a WebPartManager class.
- I. Define an interface specifying the methods and properties that are shared between the Web Parts.

Answer: B,D,H,I

Question: 106

You create a Web application for Company.com's intranet. You want to enable users to customize their versions of the intranet home page. You create sections of content as Web Parts. You need to ensure that users can customize content at any time. Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

- A. <asp:ConnectionsZone ID="ConnectionsZone1" Runat="server"> <ConnectVerb Enabled="true" /></asp:ConnectionsZone>
- B. <asp:CatalogZone ID="CatalogZone1" Runat="server"> <ZoneTemplate> <asp:PageCatalogPart Runat="server" ID="PageCatalogPart1" /> </ZoneTemplate></asp:CatalogZone>
- C. <asp:WebPartZone ID="WebPartZone1" Runat="server"> <ZoneTemplate> </ZoneTemplate></asp:WebPartZone>
- D. <asp:ProxyWebPartManager ID="ProxyWebPartmanager1" Runat="server" />

Answer: B, C

Question: 107

You want to enable users of a Web application to modify the Web application's UI and behavior. These modifications must be maintained at the user level so that when users return to the Web application, the changes are still in effect. You need to achieve this goal by using the minimum amount of custom code. What should you do?

- A. Persist control data by using view state.
- B. Use Web Part controls.
- C. Maintain a profile for each user.
- D. Enable session state on the Web application.

Answer: B

Question: 108

You create a master page named Template.master. Template.master contains the following ContentPlaceHolder server controls.

```
<asp:contentplaceholder id="area1" runat="server"/>
<asp:contentplaceholder id="area2" runat="server"/>
```

You also create 10 Web Forms. The Web Forms reference Template.master as their master page. Each Web Form has the following Content controls that correspond to the ContentPlaceHolder controls in Template.master.

```
<asp:Content ContentPlaceHolderID="area1" Runat="Server"/>
<asp:Content ContentPlaceHolderID="area2" Runat="Server"/>
```

You need to configure the Web pages so that default content will be shown in the area2 ContentPlaceHolder control whenever a Web Form does not provide that content. What should you do?

- A. Move default content inside area2 in Template.master. Remove area2 from Web Forms that do not provide content.
- B. Move default content inside area2 in Template.master. Leave area2 blank in Web Forms that do not provide content.
- C. Move default content inside area2 in the Web Forms. Remove area2 from Template.master.
- D. Create an additional ContentPlaceHolder control in Template.master named area2_default. Place default content inside area2_default. Remove area2 from Web Forms that do not provide content.

Answer: A

Question: 109

You are creating a mobile Web Form that displays Company.com's logo. The Web Form contains the following image control.

```
<mobile:Image ID="ImageLogo" runat=server ImageURL="logo-bw.gif">
</mobile:Image>
```

You need to display the logo in black and white on devices that do not support color. In addition,

you need to display the logo in color on devices that support color.
Which two actions should you perform? (Each correct answer presents part of the solution.
Choose two.)

- A. Add a method to the code-behind file named `isColor`. Ensure that it returns a Boolean value and takes an instance of the `MobileCapabilities` class and a string.
- B. Add a method to the code-behind file named `isColor`. Ensure that it uses the `MobileCapabilities` class and returns a string indicating the URL of the image to display.
- C. Add the following code segment between your image control definition tags.
`<DeviceSpecific> <Choice Filter="isColor" ImageURL="logo-color.gif" /></DeviceSpecific>`
- D. Add the following node to the `deviceFilters` element within the `Web.config` file. `<filter name="isColor" compare="IsColor" argument="true" />`

Answer: A, C

Question: 110

You create a Web Form. You need to add controls that use adaptive rendering to display content. The type of content rendered must depend on the device that is requesting the page. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Add custom controls that emit XHTML to the Web Form.
- B. Add custom controls that emit WML to the Web Form.
- C. Add mobile controls to the Web Form.
- D. Add Web server controls to the Web Form.

Answer: C, D

Question: 111

You create a mobile Web application. You need to use a Command control to post user input from the UI elements back to the server. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Place the Command control within an instance of the `System.Web.UI.MobileControls.SelectionList` control.
- B. Place the Command control within an instance of the `System.Web.UI.MobileControls.ObjectList` control.
- C. Place the Command control within an instance of the `System.Web.UI.MobileControls.Form` control.
- D. Place the Command control within an instance of the `System.Web.UI.MobileControls.Panel` control.

Answer: C, D

Question: 112

You create a server control that inherits from `WebControl`. You need to enable the server control to emit markup for a new kind of mobile device. You must not alter the code in the server controls. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

- A. Create a class that inherits `HtmlTextWriter` and that can emit the new markup.
- B. Create a class that inherits `StreamWriter` and that can emit the new markup.
- C. Reference the class in the `<capabilities>` element of the new device's browser definition file.
- D. Reference the class in the `<controlAdapters>` element of the new device's browser definition file.

Answer: A, D

Question: 113

You create a Web application. The Web application enables users to change fields in their personal profiles. Some of the changes are not persisting in the database. You need to raise a custom event to track each change that is made to a user profile so that you can locate the error. Which event should you use?

- A. WebAuditEvent
- B. WebEventManager
- C. WebBaseEvent
- D. WebRequestEvent

Answer: C

Question: 114

You create a large, n-tier Web application that has a custom event tracking system. You need to create a custom event type that enables your event tracking system to record all relevant event details for all types of events. The events must be stored in Microsoft SQL Server. From which base type should your custom event type inherit?

- A. IWebEventCustomEvaluator
- B. WebEventProvider
- C. WebBaseEvent
- D. WebAuditEvent

Answer: C

Question: 115

You create a Web site that you must copy from a development server to a testing server, along with all source files. You do not have terminal access to the testing server. You need to create the virtual directory. Then you must copy the Web site to the virtual directory on the testing server without precompiling the site. What should you do?

- A. Use the Publish Web tool.
- B. Use the Copy Web tool.
- C. Use the command line to XCOPY the files.
- D. Create a Web Setup project.

Answer: B

Question: 116

Your team creates a Web site. The Web site needs to be deployed to a staging server for performance testing. You plan to make a number of performance enhancements and then retest. You need to compile and copy the Web site to the staging server. What should you do?

- A. Write a batch file that uses aspnet_compiler.exe.
- B. Write a batch file that uses InstallUtil.exe.
- C. Write a batch file that uses Csc.exe.
- D. Write a batch file that uses aspnet_wp.exe.

Answer: A

Question: 117

You are deploying a Web site to a server managed by a hosting company. The only access you have to the server is through FTP. You need to precompile and deploy the Web site without its

source files. What should you do?

- A. Use the Copy Web tool.
- B. Use the Publish Web tool.
- C. Use XCOPY.
- D. Use the Web Setup project Installer.

Answer: B

Question: 118

You are working with a team of developers on a Web site. You copy the Web site from the staging server to work on it locally. While making changes, you create new C# source code files and delete old ones. You need to ensure that your changes propagate to the staging server without affecting any files that you have not modified. Which tool should you use?

- A. XCOPY
- B. the Copy Web tool
- C. the Publish Web tool
- D. a Web Setup project

Answer: B

Question: 119

Exhibit: *** MISSING ***

You develop a Web control to manage credit card information. The Web control is shown in the exhibit.

You register the control on the Web Form by using the following code segment. <%@ Register Assembly="CreditCardUserDetails" Namespace="CreditCardUserDetails" TagPrefix="cc1 %> You need to declare the control on the Web Form. Which code segment should you use?

- A. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server" Name="test"></cc1:CreditCardDetails><asp:TextBox ID="TxtName" runat="server" Text="<%#CreditCardDetails1.Name%>"></asp:TextBox>
- B. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server" Name="<%#Container.Name%>"></cc1:CreditCardDetails>
- C. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server"> <Template> <asp:TextBox ID="TxtName" runat="server" Text="<%#Container.Name%>"></asp:TextBox> </Template></cc1:CreditCardDetails>
- D. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server"> <Template> <asp:TextBox ID="TxtName" runat="server" Text="<%#Container.Template%>"></asp:TextBox> </Template></cc1:CreditCardDetails>

Answer: C

Question: 120

You create a Web Form with several UI elements on it. During a code review, you realize that some of the UI elements can be grouped into user controls. You need to create a Web control to group the UI elements that do not require server-side processing. Doing so will enable you to programmatically add or remove the UI elements from the page. You want to maintain the UI elements' style properties. What should you do?

- A. Use System.Web.UI.TemplateControl to group the UI elements.
- B. Use System.Web.UI.HtmlControls.HtmlControl to group the UI elements.
- C. Use System.Web.UI.LiteralControl to group the UI elements.
- D. Use System.Web.UI.WebControls.Literal to group the UI elements.

Answer: C

Question: 121

You create a Web server control named ContosoControls. You add a Web custom control named ContosoMailer to it. You then distribute the Web Control Library files to your team. You need to provide your team with the correct procedure for adding the Web Control Library to the items in the toolbox of Microsoft Visual Studio .NET. Which procedure should you provide to the team?

- A. Within the toolbox, click Choose Items and then browse to and select the ContosoControls user control.
- B. Within the toolbox, click Choose Items and then browse to and select the ContosoMailer user control.
- C. Right-click Web Project, click Add Reference, and then browse to and select the ContosoControls.dll file.
- D. Within the toolbox, click Choose Items and then browse to and select the ContosoControls.dll file.

Answer: D

Question: 122

You are creating a templated Web control for use in your Web application. You need to add the Web control to your Web application pages without compiling your control into a .dll file. What should you do?

- A. Ensure that the Web control inherits from the WebControl class.
- B. Ensure that the Web control inherits from the Control class.
- C. Ensure that the Web control inherits from the CompositeControl class.
- D. Ensure that the Web control inherits from the UserControl class.

Answer: D

Question: 123

You are creating a custom control. The UI of the control must contain several text boxes and two buttons. The control must be available in the global assembly cache for reuse across multiple Web applications. You need to achieve this functionality by using the minimum amount of code. What should you do?

- A. Create a control that derives from System.Web.UI.Control.
- B. Create a control that derives from System.Web.UI.WebControls.CompositeControl.
- C. Create a control that derives from System.Web.UI.WebControls.WebControl.
- D. Create a control that derives from System.Web.UI.UserControl.

Answer: B

Question: 124

You are developing a Web control. The Web control captures user address information in a Web application.

You create a class named AddressControl that inherits from CompositeControl. This control consists of child controls. You need to ensure that the child controls are properly output to the browser. Developers using your control must be able to set the appropriate text for labels. In addition, they must be able to pull user address information from the associated text boxes during postback. What should you do?

- A. Override the EnsureChildControls method of the base class. Add the child controls to the base container.
- B. Override the CreateControlCollection method of the base class. Add the child controls to the

ControlCollection class.

C. Override the CreateChildControls method of the base class. Add the child controls to the base container.

D. Override the DataBindChildren method of the base class. Add the child controls to the ControlCollection class.

Answer: C

Question: 125

You create a master page named Template.master. Template.master contains the following ContentPlaceHolder server controls.

```
<asp:contentplaceholder id="area1" runat="server"/>
```

```
<asp:contentplaceholder id="area2" runat="server"/>
```

You also create 10 Web Forms. The Web Forms reference Template.master as their master page. Each Web

Form has the following Content controls that correspond to the ContentPlaceHolder controls in Template.master.

```
<asp:Content ContentPlaceHolderID="area1" Runat="Server"/>
```

```
<asp:Content ContentPlaceHolderID="area2" Runat="Server"/>
```

You need to configure the Web pages so that default content will be shown in the area2 ContentPlaceHolder control whenever a Web Form does not provide that content. What should you do?

A. Move default content inside area2 in Template.master. Remove area2 from Web Forms that do not provide content.

B. Move default content inside area2 in Template.master. Leave area2 blank in Web Forms that do not provide content.

C. Move default content inside area2 in the Web Forms. Remove area2 from Template.master.

D. Create an additional ContentPlaceHolder control in Template.master named area2_default. Place default content inside area2_default. Remove area2 from Web Forms that do not provide content.

Answer: A

Question: 126

You create a Web application for Company.com's intranet. You want to enable users to customize their versions of the intranet home page. You create sections of content as Web Parts. You need to ensure that users can customize content at any time. Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

A. `<asp:ConnectionsZone ID="ConnectionsZone1" Runat="server"> <ConnectVerb Enabled="true" /></asp:ConnectionsZone>`

B. `<asp:CatalogZone ID="CatalogZone1" Runat="server"> <ZoneTemplate>
<asp:PageCatalogPart Runat="server" ID="PageCatalogPart1" />
</ZoneTemplate></asp:CatalogZone>`

C. `<asp:WebPartZone ID="WebPartZone1" Runat="server"> <ZoneTemplate>
</ZoneTemplate></asp:WebPartZone>`

D. `<asp:ProxyWebPartManager ID="ProxyWebPartmanager1" Runat="server" />`

Answer: B, C

Question: 127

You want to enable users of a Web application to modify the Web application's UI and behavior. These modifications must be maintained at the user level so that when users return to the Web application, the changes are still in effect. You need to achieve this goal by using the minimum amount of custom code. What should you do?

- A. Persist control data by using view state.
- B. Use Web Part controls.
- C. Maintain a profile for each user.
- D. Enable session state on the Web application.

Answer: B

Question: 128

You develop a Web application that contains two master pages. You need to dynamically set the master page when a user views pages in the application. What should you do?

- A. Set Page.MasterPageFile in the Page's Page_Init event.
- B. Set Page.MasterPageFile in the Page's OnInit override.
- C. Set Page.MasterPageFile in the Page's Page_Load event.
- D. Set Page.MasterPageFile in the Page's Page_PreInit event.

Answer: D

Question: 129

You create a master page named Article.master. Article.master serves as the template for articles on your Web site. The master page uses the following page directives. `<%@ Master Language="VB" CodeFile="article.master.vb" Inherits="article" %>` You need to create a content page that uses the master page as a template. In addition, you need to use a single master page for all devices that access the Web site. Which code segment should you use?

- A. `<%@ Page Language="VB" Theme="article"%>`
- B. `<%@ Page Language="VB" MasterPageFile="~/article.master"%>`
- C. `<%@ Page Language="VB" ie:MasterPageFile="~/article.master"%>`
- D. `<%@ Page Language="VB" all:MasterPageFile="~/article.master"%>`

Answer: B

Question: 130

You have a Web application that is configured for personalization. You need to access personalization data from one of the pages of the Web application by using the minimum amount of administrative effort. What should you do?

- A. Access the personalization data from the Session property of the HttpContext object.
- B. Access the personalization data from the Application property of the HttpContext object.
- C. Access the personalization data from the Cache property of the HttpContext object.
- D. Access the personalization data from the Profile property of the HttpContext object.

Answer: D

Question: 131

You create a Web Form. The Web Form contains two Web Parts named CustomerPart and OrdersPart. CustomerPart contains a drop-down list of customers. OrdersPart contains a list of orders that a customer has placed. You need to create a static connection between CustomerPart and OrdersPart. When a user selects a customer from CustomerPart, OrdersPart must update. Which four actions should you perform? (Each correct answer presents part of the solution. Choose four.)

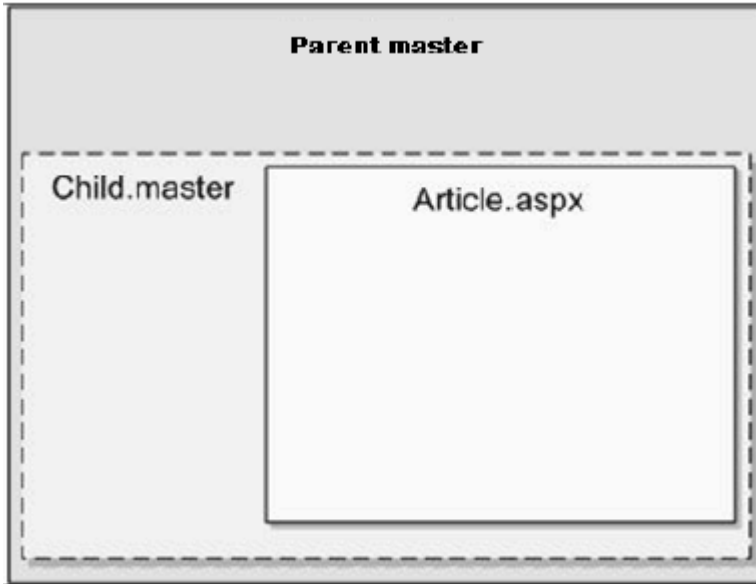
- A. Add the ConnectionProvider attribute to OrdersPart.
- B. Add the ConnectionProvider attribute to CustomerPart.
- C. Add the ConnectionConsumer attribute to CustomerPart.
- D. Add the ConnectionConsumer attribute to OrdersPart.

- E. Add OrdersPart and CustomerPart to the WebParts directory.
- F. Add OrdersPart and CustomerPart to the App_Code directory.
- G. Declare the connections within a StaticConnections subtag of a WebPartZone class.
- H. Declare the connections within a StaticConnections subtag of a WebPartManager class.
- I. Define an interface specifying the methods and properties that are shared between the Web Parts.

Answer: B, D, H, I

Question: 132

Exhibit:



You create a master page named Parent.master that contains a global header for your Web application. You add a ContentPlaceholder to Parent.master by using the following code segment.

```
<asp:ContentPlaceHolder
ID="pagebody" runat="server" />
```

You also create a content page named Article.aspx by using the following code segment.

```
<%@ Page Language="C#" MasterPageFile="~/navigation.master"%>
```

```
<asp:Content ContentPlaceHolderID="article" Runat="Server">
```

Article content to go here</asp:Content>You need to create a child master page that contains the navigation for each section. The users must be able to see the header, the navigation, and the article when they view the page, as shown in the exhibit.

Which code segment should you use?

- A.

```
<%@ Master Language="C#" MasterPageFile="~/parent.master"%>
<asp:Content runat="server" ContentPlaceHolderID="pagebody"> Navigation element 1<br />
Navigation element 2<br /> <asp:contentplaceholder id="article" runat="server">
</asp:contentplaceholder></asp:Content>
```
- B.

```
<%@ Master Language="C#" MasterPageFile="~/parent.master"%><asp:Content
runat="server" ContentPlaceHolderID="pagebody"> <asp:contentplaceholder id="article"
runat="server"> Navigation element 1<br /> Navigation element 2<br />
</asp:contentplaceholder></asp:Content>
```
- C.

```
<%@ Master Language="C#" MasterPageFile="~/parent.master"%><asp:Content
runat="server" ContentPlaceHolderID="article"> Navigation element 1<br /> Navigation
element 2<br /> <asp:contentplaceholder id="pagebody" runat="server">
</asp:contentplaceholder></asp:Content>
```

D. <%@ Master Language="C#" MasterPageFile="~/parent.master"%><asp:Content
runat="server" ContentPlaceHolderID="article"> <asp:contentplaceholder id="pagebody"
runat="server"> Navigation element 1
 Navigation element 2

</asp:contentplaceholder></asp:Content>

Answer: A

Question: 133

You create a Web Form that contains a TreeView control. The TreeView control allows users to navigate within the Marketing section of your Web site. The following XML defines the site map for your site.

```
<siteMapNode url="~\default.aspx" title="Home" description="Site Home Page">  
<siteMapNode url="Sales.aspx" title="Sales" description="Sales Home">  
<siteMapNode url="SalesWest.aspx" title="West Region" description="Sales for the West  
Region" />  
<siteMapNode url="SalesEast.aspx" title="East Region" description="Sales for the East Region"  
/>  
</siteMapNode>  
<siteMapNode url="Marketing.aspx" title="Marketing" description="Marketing Home">  
<siteMapNode url="MarketNational.aspx" title="National Campaign" description="National  
marketing campaign" />  
<siteMapNode url="MarketMidwest.aspx" title="Midwest Campaign" description="Midwest region  
marketing campaign" />  
<siteMapNode url="MarketSouth.aspx" title="South Campaign" description="South region  
marketing campaign" />  
</siteMapNode></siteMapNode>
```

You need to bind the TreeView control to the site map data so that users can navigate only within the Marketing section.

Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Add a SiteMapDataSource control to the Web Form and bind the TreeView control to it.
- B. Add a SiteMapPath control to the Web Form and bind the TreeView control to it.
- C. Embed the site map XML within the SiteMap node of a Web.sitemap file.
- D. Embed the site map XML within the AppSettings node of a Web.config file.
- E. Set the StartingNodeUrl property of the SiteMapDataSource control to ~/Marketing.aspx.
- F. Set the SkipLinkText property of the SiteMapPath control to Sales.

Answer: A, C, E

Question: 134

You are transferring records from one database to another. You need to decide whether you can use the SqlBulkCopy class to transfer the records. What should you do?

- A. Ensure that the source database is Microsoft SQL Server.
- B. Ensure that the destination database is Microsoft SQL Server.
- C. Ensure that the column names in the source table match the column names in the destination table.
- D. Ensure that the bulk copy program (bcp) utility is installed on the destination server.

Answer: B

Question: 135

You create an application. The application processes hundreds of XML documents per minute. The XML documents are validated against inline schemas. You need to load XML documents from the file system and read them as quickly as possible. XML comments must be ignored while reading the XML documents. What should you do?

- A. Create an instance of the XmlReader class by using the XmlReader Create method with an instance of the XmlReaderSettings class.
- B. Create an instance of the XmlReader class with an instance of the XmlTextReader class.
- C. Create an instance of the XmlDocument class and specify a location for the application schema.
- D. Create an instance of the XmlReader class with an instance of the XmlNodeReader class.

Answer: A

Question: 136

You are developing an application that connects to a Microsoft SQL Server database using the SqlConnection object. Your connection objects are being pooled. As the pool fills up, connection requests are queued. Some connection requests are rejected. You need to ensure that the application releases connections back to the pool as soon as possible. Also, you need to decrease the likelihood that connection requests will be rejected. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Ensure that the Close method is called on each connection object after it has finished executing.
- B. Ensure that each connection object is left open after it has finished executing.
- C. Increase the Max Pool Size value inside the connection string.
- D. Increase the Min Pool Size value inside the connection string.
- E. Increase the Connection Lifetime value inside the connection string.
- F. Increase the value of the ConnectionTimeout property of the SqlConnection object.

Answer: A, C, F

Question: 137

You write a Web application. This application must support multiple languages. You store the localized strings in the application as resources. You want these resources to be accessed according to a users language preference. You create the following resource files in the App_GlobalResources folder of your application. myStrings.resxmyStrings.en-CA.resxmyString.en-US.resxmyStrings.fr-CA.resxmyStrings.es-MX.resx Each resource file stores a localized version of the following strings: Name, E-mail, Address, and Phone. You create a Web Form that contains one label for each of these strings. You need to ensure that the correct localized version of each string is displayed in each label, according to a users language preference. What should you do?

- A. Add the following configuration section to the Web.config file. <globalization culture="Auto" />
- B. Set the directive for each page in your site as follows: <%@ Page UICulture="Auto" %>
- C. Add the following code segment to the pages load event. lblName.Text = @"{myStrings}Name";
lblAddress.Text = @"{myStrings}Address"; lblEmail.Text = @"{myStrings}Email";
lblPhone.Text = @"{myStrings}Phone";
- D. Add the following code segment to the pages load event. lblName.Text = Resources.myStrings.Name; lblAddress.Text = Resources.myStrings.Address; lblEmail.Text = Resources.myStrings.Email; lblPhone.Text = Resources.myStrings.Phone;

Answer: D

Question: 138

You create a Web Form that contains a text box named txtDate. You want the text box to allow users to enter any valid date. You need to use an ASP.NET validation control to ensure that only valid date values are submitted to the server. What should you do?

- A. Add a CompareValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its Operator property to DataTypeCheck.
- B. Add a RangeValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its MinimumValue property to 01/01/1900 and its MaximumValue to the current date.
- C. Add a CustomValidator control to the Web Form. Set its ControlToValidate property to txtDate. Write a function in the partial class that verifies the values as dates and returns a Boolean variable. Set the CustomValidators ClientValidationFunction to the name of your function.
- D. Add a RegularExpressionValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set the ValidationExpression property to ensure that the users input follows the format of nn-nn-nnnn, where n represents a number from 0 through 9.

Answer: A

Question: 139

You create a Web Form that contains a button named btnCancel that enables users to exit the page. When users click this button, validation must not occur. During testing you learn that clicking the Cancel button does not enable users to exit the page. You need to ensure that users can always exit the page. What should you do?

- A. Set the Enabled property of the validation controls on the Web Form to False.
- B. Set the CausesValidation property of the btnCancel button to False.
- C. Set the CausesValidation property of the btnCancel button to True.
- D. Set the Visible property of the validation controls on the Web Form to False.

Answer: B

Question: 140

Your Web site uses custom Themes. Your Web site must support additional Themes based on the user's company name. The company name is set when a user logs on to the Web site. The company's Theme name is stored in a variable named ThemeName. You need to use this variable to dynamically set the Web site's Theme. What should you do?

- A. Add the following code segment to the markup source of each page on the Web site. <%@ Page Theme="ThemeName" ... %>
- B. Add the following code segment to the Load event of each page on the Web site. Page.Theme = ThemeName;
- C. Add the following code segment to the PreInit event of each page on the Web site. Page.Theme = ThemeName;
- D. Add the following code segment to the Web site's configuration file. <pages theme="ThemeName" />

Answer: C

Question: 141

You create a Web Form that allows users to create a new account. You add a CreateUserWizard control by using the following code segment.

```
<asp:CreateUserWizard id="Wizard1" runat="server"/>
```

You need to ensure that the wizard automatically sends an e-mail message to users when they finish creating their accounts. You add a valid <smtp> element to the Web.config file. Which code

segment should you add to the Page_Load event?

- A. Wizard1.RequireEmail = true;
- B. Wizard1.Email = "user@address.com";
- C. Wizard1.MailDefinition.From = "registration@mysite.com";
- D. SmtplibMail.SmtplibServer = "mail.contoso.com";

Answer: C

Question: 142

You create a Web site that is for members only. The Web site allows members to create lists of users that have access to information about member profiles. The name of the list is stored in the listName variable. The user name of the user to whom access is given is stored in the username variable. You need to enable members to manage their lists of users. Which code segment should you use?

- A. Roles.CreateRole(listName);User.IsInRole(listName);
- B. Roles.CreateRole(listName);Roles.AddUserToRole(userName, listName);
- C. Roles.RoleExists(listName);Roles.AddUserToRole(userName, listName);
- D. Roles.RoleExists(listName);User.IsInRole(listName);

Answer: B

Question: 143

You have an SQL query that takes one minute to execute. You use the following code segment to execute the SQL query asynchronously. IAsyncResult ar = cmd.BeginExecuteReader(); You need to execute a method named DoWork() that takes one second to run while the SQL query is executing. DoWork() must run as many times as possible while the SQL query is executing. Which code segment should you use?

- A. while (ar.AsyncWaitHandle == null) { DoWork();}dr = cmd.EndExecuteReader(ar);
- B. while (!ar.IsCompleted) { DoWork();}dr = cmd.EndExecuteReader(ar);
- C. while (Thread.CurrentThread.ThreadState == ThreadState.Running) { DoWork();}dr = cmd.EndExecuteReader(ar);
- D. while (!ar.AsyncWaitHandle.WaitOne()) { DoWork();}dr = cmd.EndExecuteReader(ar);

Answer: B

Question: 144

You are creating a DataTable. You use the following code segment to create the DataTable. (Line numbers are included for reference only.)

```
01 DataTable dt = new DataTable("Products");  
02 dt.Columns.Add(new DataColumn("Price", typeof(decimal)));  
03 dt.Columns.Add(new DataColumn("Quantity", typeof(Int32)));  
04 DataColumn dc = new DataColumn("Total", typeof(decimal));  
05 dt.Columns.Add(dc);
```

You need to ensure that the Total column is set to the value of the Price column multiplied by the Quantity column when new rows are added or changed. What should you do?

- A. Add the following code segment after line 05. dc.ExtendedProperties["Total"] = "Price * Quantity";
- B. Add the following code segment after line 05. dc.Expression = "Price * Quantity";
- C. Write an event handler for the DataTable's TableNewRow event that updates the row's Total.
- D. Write an event handler for the DataTable's ColumnChanged event that updates the row's Total.

Answer: B

Question: 145

You are creating a Web Form. The Web Form allows users to rename or delete products in a list. You create a DataTable named dtProducts that is bound to a GridView. DataTable has the following four rows.

```
dtProducts.Rows[0]["ProductName"] = "Soap";  
dtProducts.Rows[1]["ProductName"] = "Book";  
dtProducts.Rows[2]["ProductName"] = "Computer";  
dtProducts.Rows[3]["ProductName"] = "Spoon";  
dtProducts.AcceptChanges();
```

The user utilizes a Web Form to delete the first product. You need to set the RowStateFilter property of the DataTables DefaultView so that only products that have not been deleted are shown. To which value should you set the DataTables DefaultView.RowStateFilter?

- A. DataRowState.ModifiedOriginal;
- B. DataRowState.ModifiedCurrent;
- C. DataRowState.CurrentRows;
- D. DataRowState.Added;

Answer: C

Question: 146

You load an XmlDocument named doc with the following XML.

```
<bookstore>  
<books>  
<book>  
<title>World Atlas</title>  
</book>  
<book>  
<title>Dictionary</title>  
</book>  
</books>  
</bookstore>
```

You need to use an XPath query string to select the two book nodes. Which code segment should you use?

- A. XmlElement root = doc.DocumentElement;XmlNodeList nodes = root.SelectNodes(".");
- B. XmlElement root = doc.DocumentElement;XmlNodeList nodes = root.SelectNodes("book");
- C. XmlElement root = doc.DocumentElement;XmlNodeList nodes = root.SelectNodes("bookstore//book");
- D. XmlElement root = doc.DocumentElement;XmlNodeList nodes = root.SelectNodes("books/book");

Answer: D

Question: 147

You create a master page named PageBase.master. The master page contains a Label control named lblTitle. You create a content page that references the master page. You need to change the Text property of the master page's lblTitle control from the content page. Which code segment should you use?

- A. Label lblTitle = (Label)Master.FindControl("lblTitle");lblTitle.Text = "Articles";
- B. Label lblTitle = (Label)Parent.FindControl("lblTitle");lblTitle.Text = "Articles";
- C. Master.Page.Title = "Articles";
- D. ((Label)Page.FindControl("lblTitle")).Text = "Articles";

Answer: A

Question: 148

You create a master page named Article.master. Article.master serves as the template for articles on your Web site. The master page uses the following page directives.

```
<%@ Master Language="C#" Src="~/article.master.cs" Inherits="article" %>
```

You need to create a content page that uses the master page as a template. In addition, you need to use a single master page for all devices that access the Web site.

Which code segment should you use?

- A. <%@ Page Language="C#" Theme="article"%>
- B. <%@ Page Language="C#" MasterPageFile="~/article.master"%>
- C. <%@ Page Language="C#" ie:MasterPageFile="~/article.master"%>
- D. <%@ Page Language="C#" all:MasterPageFile="~/article.master"%>

Answer: B

Question: 149

Exhibit:

```
public class CreditCardDetails : CompositeControl {  
    private string _name = "";  
    private ITemplate _template = null;  
  
    [Bindable(true), Category("Data"),  
    Description("User name on the credit card")]  
    public string Name {  
        get {  
            EnsureChildControls();  
            return _name;  
        }  
        set {  
            EnsureChildControls();  
            _name = value;  
        }  
    }  
  
    //other properties excluded ...  
  
    [Browsable(false),  
    PersistenceMode(PersistenceMode.InnerProperty),  
    TemplateContainer(typeof(CreditCardDetails))]  
    public ITemplate Template {  
        get {  
            return _template;  
        }  
        set {  
            _template = value;  
        }  
    }  
  
    protected override void CreateChildControls() {  
        if (Template != null) {  
            Controls.Clear();  
            _template.InstantiateIn(this);  
        }  
    }  
}
```

You develop a Web control to manage credit card information. The Web control is shown in the

exhibit.

You register the control on the Web Form by using the following code segment.

```
<%@ Register Assembly="CreditCardUserDetails"
```

```
Namespace="CreditCardUserDetails" TagPrefix="cc1" %>
```

You need to declare the control on the Web Form.

Which code segment should you use?

- A. `<cc1:CreditCardDetails ID="CreditCardDetails1" runat="server" Name="test"></cc1:CreditCardDetails><asp:TextBox ID="TxtName" runat="server" Text="<%=#CreditCardDetails1.Name%>"></asp:TextBox>`
- B. `<cc1:CreditCardDetails ID="CreditCardDetails1" runat="server" Name="<%=#Container.Name%>"></cc1:CreditCardDetails>`
- C. `<cc1:CreditCardDetails ID="CreditCardDetails1" runat="server"> <Template> <asp:TextBox ID="TxtName" runat="server" Text="<%=#Container.Name%>"></asp:TextBox> </Template></cc1:CreditCardDetails>`
- D. `<cc1:CreditCardDetails ID="CreditCardDetails1" runat="server"> <Template> <asp:TextBox ID="TxtName" runat="server" Text="<%=#Container.Template%>"></asp:TextBox> </Template></cc1:CreditCardDetails>`

Answer: C

Question: 150

You write a Web application. This application must support multiple languages. You store the localized strings in the application as resources. You want these resources to be accessed according to a users language preference. You create the following resource files in the App_GlobalResources folder of your application.

myStrings.resx

myStrings.en-CA.resx

myString.en-US.resx

myStrings.fr-CA.resx

myStrings.es-MX.resx

Each resource file stores a localized version of the following strings: Name, E-mail, Address, and Phone. You create a Web Form that contains one label for each of these strings.

You need to ensure that the correct localized version of each string is displayed in each label, according to a users language preference. What should you do?

- A. Add the following configuration section to the Web.config file. `<globalization culture="Auto" />`
- B. Set the directive for each page in your site as follows: `<%@ Page UICulture="Auto" %>`
- C. Add the following code segment to the pages load event. `lblName.Text = @"{myStrings}Name"; lblAddress.Text = @"{myStrings}Address"; lblEmail.Text = @"{myStrings}Email"; lblPhone.Text = @"{myStrings}Phone";`
- D. Add the following code segment to the pages load event. `lblName.Text = Resources.myStrings.Name; lblAddress.Text = Resources.myStrings.Address; lblEmail.Text = Resources.myStrings.Email; lblPhone.Text = Resources.myStrings.Phone;`

Answer: D

Question: 151

You are working on an existing Web site. You need to secure the Web site by redirecting all users to the logon page, Login.aspx. After logging on, users must be sent back to the page that they originally requested. Which code segment should you use?

- A. In the Web.config file: `<authorization> <deny users="*" /></authorization>` On each page in the Web site: `void Page_Load(Object sender, EventArgs E){ FormsAuthentication.Initialize(); //Rest of the Page_Load code goes here}`
- B. On each page in the Web site: `void Page_Load(Object sender, EventArgs E){`

FormsAuthentication.RedirectToLoginPage("login.aspx"); //Rest of the Page_Load code goes here}

C. On each page in the Web site: void Page_Load(Object sender, EventArgs E){

Response.Redirect("login.aspx"); //Rest of the Page_Load code goes here}

D. In the Web.config file: <authentication mode="Forms"> <forms name=".ASPXUSERDEMO" loginUrl="login.aspx" protection="All" timeout="60" /></authentication>

Answer: D

Question: 152

You develop a Web application that writes data to a file on a server. You restrict access to the file to specific Windows users.

The Web application runs as CONTOSO\ASPNET. You deny anonymous access to the application in IIS. You add the following XML segment in the Web.config file.

<authentication mode="Windows"/>

You need to ensure that the application meets the following requirements:

- It must impersonate the user when it writes data to the file
- It must run as CONTOSO\ASPNET when a user does not access the file.

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Use the following XML segment in the Web.config file. <identity impersonate="false"/>

B. Use the following XML segment in the Web.config file. <identity impersonate="true"/>

C. Use the following code segment to access the file. WindowsPrincipal wp = (WindowsPrincipal)HttpContext.Current.User; WindowsIdentity wi = (WindowsIdentity)wp.Identity; WindowsImpersonationContext wic = wi.Impersonate(); // Access the file herewic.Undo();

D. Use the following code segment to access the file. WindowsIdentity wi = WindowsIdentity.GetCurrent(); WindowsImpersonationContext wic = WindowsIdentity.Impersonate(wi.Token); // Access the file herewic.Undo();

Answer: A, C

Question: 153

You create a Web Form that displays a GridView. The GridView's data source is a DataSet named dsOrders. The DataSet contains two DataTables named Orders and OrderDetails. You create a relation between the two DataTables using the following code segment. (Line numbers are included for reference only.)

01 dtOrders = dsOrders.Tables["Orders"];

02 dtOrderDetails = dsOrders.Tables["OrderDetails"];

03 colParent = dtOrders.Columns["OrderID"];

04 colChild = dtOrderDetails.Columns["ParentOrderID"];

05 dsOrders.Relations.Add("Rel1", colParent, colChild, false);

You need to find the cause of the exception being raised in line 05.

What should you do?

- A. Ensure that the child column and the parent column have the same names.
- B. Ensure that the child table and the parent table have the same names.
- C. Ensure that the child column and the parent column have the same data types.
- D. Ensure that each row in the child table has a corresponding row in the parent table.
- E. Ensure that the tables have an explicit relationship defined by a foreign key constraint in the database.

Answer: C

Question: 154

You load an XmlDocument named doc with the following XML.

```
<bookstore>
<books>
<book genre="reference" >
<title>Dictionary</title>
</book>
<book genre="reference" >
<title>World Atlas</title>
</book> </books>
</bookstore>
```

You need to change the value for the genre attribute to NA for all book attributes.

First, you add the following code segment to your class.

```
XmlElement root = doc.DocumentElement;
```

```
XmlNodeList nodes = root.SelectNodes("books/book");
```

Which additional two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. `foreach (XmlNode node in nodes){ node.Attributes[0].Value = "NA";}`
- B. `foreach (XmlNode node in nodes){ node.Attributes[1].Value = "NA";}`
- C. `foreach (XmlNode node in nodes){ XmlNode genre = node.SelectSingleNode("/genre"); genre.Value = "NA";}`
- D. `foreach (XmlNode node in nodes){ XmlNode genre = node.SelectSingleNode("@genre"); genre.Value = "NA";}`
- E. `foreach (XmlNode node in nodes){ XmlNode genre = node.SelectSingleNode("genre"); genre.Value = "NA";}`

Answer: A, D

Question: 155

Your Web site processes book orders. One of the application methods contains the following code segment.

```
XmlDocument doc = new XmlDocument();
```

```
doc.LoadXml("<book><discount>10</discount>" + "
```

```
<title>Dictionary</title></book>");
```

You need to remove the discount element from XmlDocument. Which two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. `XmlNode root = doc.DocumentElement;root.RemoveChild(root.FirstChild);`
- B. `XmlNode root = doc.DocumentElement;root.RemoveChild(root.SelectSingleNode("discount"));`
- C. `doc.RemoveChild(doc.FirstChild);`
- D. `doc.DocumentElement.RemoveChild(doc.FirstChild);`

Answer: A, B

Question: 156

You create a Web Form. The Web Form uses the FormView control to enable a user to edit a record in the database. When the user clicks the Update button on the FormView control, the application must validate that the user has entered data in all of the fields. You need to ensure that the Web Form does not update if the user has not entered data in all of the fields. Which code segment should you use?

- A. `protected void FormView1_ItemUpdating(object sender, FormViewUpdateEventArgs e) { foreach (DictionaryEntry entry in e.Keys) { if (entry.Value.ToString() == System.String.Empty) { e.Cancel = true; return; } }}`
- B. `protected void FormView1_ItemUpdated(object sender, FormViewUpdatedEventArgs e) { foreach (DictionaryEntry entry in e.NewValues) { if (entry.Value.Equals("")) {`

```
e.KeepInEditMode = true; return; } }}
C. protected void FormView1_ItemUpdating(object sender, FormViewUpdateEventArgs e) {
foreach (DictionaryEntry entry in e.NewValues) { if (entry.Value.Equals("")) { e.Cancel = true;
return; } }}
D. protected void FormView1_ItemUpdated(object sender, FormViewUpdatedEventArgs e) {
foreach (DictionaryEntry entry in e.Keys) { if (entry.Value.ToString() == System.String.Empty)
{ e.KeepInEditMode = true; return; } }}
```

Answer: C

Question: 157

You create a Web Form. The Web Form allows users to calculate values and display the results in a label named lblResults. You need to capture all unhandled exceptions on the Web Form through the Error event. The Error event must capture each unhandled exception and display it on the Web Form. Which code segment should you use?

```
A. protected void Page_Error(object sender, EventArgs e) { lblResults.Text = e.ToString();
e=null;}
B. protected void Page_Error(object sender, EventArgs e) { lblResults.Text =
Server.GetLastError().ToString(); Server.ClearError();}
C. protected void Page_Error(object sender, EventArgs e) { Response.Write(e.ToString());
e=null;}
D. protected void Page_Error(object sender, EventArgs e) {
Response.Write(Server.GetLastError().ToString()); Server.ClearError();}
```

Answer: D

Question: 158

You are creating a mobile Web Form that dynamically displays news items. You want to display news items by using an instance of a mobile TextView control named TextViewNews. You need to configure the Web Form that contains TextViewNews. The Web Form must enable pagination in case a users device does not display the full text of a news item. Which code segment should you use?

```
A. PagerStyle ps = new PagerStyle();ps.NextPageText = "more >";ps.PreviousPageText = "<
back";FormNews.Paginate = true;
B. FormNews.PagerStyle.NextPageText = "more >";FormNews.PagerStyle.PreviousPageText =
"< back";TextViewNews.PaginateRecursive(new ControlPager(FormNews, 1000));
C. FormNews.PagerStyle.NextPageText = "more >";FormNews.PagerStyle.PreviousPageText =
"< back";FormNews.PaginateRecursive(new ControlPager(FormNews, 1000));
D. FormNews.PagerStyle.NextPageText = "more >";FormNews.PagerStyle.PreviousPageText =
"< back";FormNews.Paginate = true;
```

Answer: D

Question: 159

You define a composite control to capture a user's date. You use following class declaration.

```
Public class DateOfBirth : CompositeControl
{ }
```

You need to ensure that the Web control supports templates.

Which four code segments should use? (Select four. Each is a part of the solution.)

List of Code Segments

```
private Label _prompt = new Label();
private TextBox _date = new TextBox();
```

```
private string _prompt = "Enter date of birth ";
private DateTime _date = DateTime();
private ITemplate _template = null;
```

```
[Bindable(true)]
public string Prompt {
    get {
        EnsureChildControls();
        return _prompt.Text;
    }
    set {
        EnsureChildControls();
        _prompt.Text = value;
    }
}
```

```
[Bindable(true)]
public string Date {
    get {
        EnsureChildControls();
        return _date.Text;
    }
    set {
        EnsureChildControls();
        _date.Text = value;
    }
}
```

```
[Bindable(true)]
public string Prompt {
    get {
        EnsureChildControls();
        return _prompt;
    }
    set {
        EnsureChildControls();
        _prompt = value;
    }
}

[Bindable(true)]
public DateTime Date {
    get {
        EnsureChildControls();
        return _date;
    }
    set {
        EnsureChildControls();
        _date = value;
    }
}
```

Place Code Segments here

Place first code segment here

Place second code segment here

Place third code segment here

Place fourth code, if any, segment here

```
[Browsable(false)]
[PersistenceMode(PersistenceMode.InnerProperty)]
[TemplateContainer(typeof(DateTime))]
public ITemplate Template {
    get {
        return _template;
    }
    set {
        _template = value;
    }
}
```

```
protected override void CreateChildControls() {
    if (Template != null) {
        Controls.Clear();
        _template.InstantiateIn(this);
    }
}
```

```
protected override void CreateChildControls() {
    this.Controls.Add(_prompt);
    this.Controls.Add(_date);
    base.CreateChildControls();
}
```

Answer: Pending. Send your suggestion to feedback@Testkingonline.com

Question: 160

You are developing a Web application. The Web application restricts access to an administrative page. The Web application uses the following code segment to protect the page.

```
if (Page.User.Identity.Name != @"CONTOSO\Administrator") { Response.Redirect("login.aspx");}
```

You are logged on as Administrator. When you display the page, you are redirected to Login.aspx. You discover that the User.Identity.Name property is not being correctly populated. You need to ensure that you can access the page when you are logged on as Administrator. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. In the Web.config file, enable impersonation.
- B. In IIS, enable anonymous access.
- C. In IIS, disable anonymous access.
- D. In the Web.config file, set the authentication mode to Windows.

Answer: C, D

Question: 161

You write a Web application. This application must support multiple languages. You store the localized strings in the application as resources. You want these resources to be accessed according to a users language preference. You create the following resource files in the App_GlobalResources folder of your application. myStrings.resxmyStrings.en-CA.resxmyString.en-US.resxmyStrings.fr-CA.resxmyStrings.es-MX.resx Each resource file stores a localized version of the following strings: Name, E-mail, Address, and Phone. You create a Web Form that contains one label for each of these strings. You need to ensure that the correct localized version of each string is displayed in each label, according to a users language preference. What should you do?

- A. Add the following configuration section to the Web.config file. <globalization culture="Auto" />
- B. Set the directive for each page in your site as follows: <%@ Page UICulture="Auto" %>
- C. Add the following code segment to the pages load event. lblName.Text = "{myStrings}Name" lblAddress.Text = "{myStrings}Address" lblEmail.Text = "{myStrings}Email" lblPhone.Text = "{myStrings}Phone"
- D. Add the following code segment to the pages load event. lblName.Text = Resources.myStrings.Name lblAddress.Text = Resources.myStrings.Address lblEmail.Text = Resources.myStrings.Email lblPhone.Text = Resources.myStrings.Phone

Answer: D

Question: 162

You create a master page named PageBase.master. The master page contains a Label control named lblTitle. You create a content page that references the master page. You need to change the Text property of the master page's lblTitle control from the content page. Which code segment should you use?

- A. Dim lblTitle As Label = Master.FindControl("lblTitle")lblTitle.Text = "Articles"
- B. Dim lblTitle As Label = Parent.FindControl("lblTitle")lblTitle.Text = "Articles"
- C. Master.Page.Title = "Articles"
- D. CType(Page.FindControl("lblTitle"), Label).Text = "Articles"

Answer: A

Question: 163

You create a Web Form. The Web Form uses the FormView control to enable a user to edit a record in the database. When the user clicks the Update button on the FormView control, the application must validate that the user has entered data in all of the fields. You need to ensure that the Web Form does not update if the user has not entered data in all of the fields. Which code segment should you use?

- A. Protected Sub FormView1_ItemUpdating(ByVal sender As Object, _ ByVal e As System.Web.UI.WebControls.FormViewUpdateEventArgs) _ Handles FormView1.ItemUpdating
Dim entry As DictionaryEntry
For Each entry In e.Keys
If entry.Value.ToString() = System.String.Empty Then
e.Cancel = True
Return
End If
Next entry
End Sub
- B. Protected Sub FormView1_ItemUpdated(ByVal sender As Object, _ ByVal e As System.Web.UI.WebControls.FormViewUpdatedEventArgs) _ Handles FormView1.ItemUpdated
Dim entry As DictionaryEntry
For Each entry In e.NewValues

```

If entry.Value.Equals("") Then
e.KeepInEditMode = True
Return
End If
Next entry
End Sub
C. Protected Sub FormView1_ItemUpdating(ByVal sender As Object, _ ByVal e As
System.Web.UI.WebControls.FormViewUpdateEventArgs) _ Handles
FormView1.ItemUpdating
Dim entry As DictionaryEntry
For Each entry In e.NewValues
If entry.Value.Equals("") Then e.Cancel = True
Return
End If Next entryEnd Sub
D. Protected Sub FormView1_ItemUpdated(ByVal sender As Object, _ ByVal e As
System.Web.UI.WebControls.FormViewUpdatedEventArgs) _ Handles
FormView1.ItemUpdated
Dim entry As DictionaryEntry
For Each entry In e.Keys
If entry.Value.ToString() = System.String.Empty Then
e.KeepInEditMode = True
Return
End If
Next entry
End Sub

```

Answer: C

Question: 164

You load an XmlDocument named doc with the following XML.

```

<bookstore>
<books>
<book>
<title>World Atlas</title>
</book>
<book>
<title>Dictionary</title>
</book>
</books>
</bookstore>

```

You need to use an XPath query string to select the two book nodes. Which code segment should you use?

- A. Dim root As XmlElement = doc.DocumentElementDim nodes As XmlNodeList = root.SelectNodes(".")
- B. Dim root As XmlElement = doc.DocumentElementDim nodes As XmlNodeList = root.SelectNodes("book")
- C. Dim root As XmlElement = doc.DocumentElementDim nodes As XmlNodeList =root.SelectNodes("bookstore//book")
- D. Dim root As XmlElement = doc.DocumentElementDim nodes As XmlNodeList =root.SelectNodes("books/book")

Answer: D

Question: 165

You have an SQL query that takes one minute to execute. You use the following code segment to

execute the SQL query asynchronously. Dim ar As IAsyncResult = cmd.BeginExecuteReader() You need to execute a method named DoWork() that takes one second to run while the SQL query is executing. DoWork() must run as many times as possible while the SQL query is executing. Which code segment should you use?

- A. While ar.AsyncWaitHandle.IsNothing DoWork()End While dr = cmd.EndExecuteReader(ar)
- B. While Not ar.IsCompleted DoWork()End While dr = cmd.EndExecuteReader(ar)
- C. While Thread.CurrentThread.ThreadState = ThreadState.Running DoWork()End While dr = cmd.EndExecuteReader(ar)
- D. While Not ar.AsyncWaitHandle.WaitOne() DoWork()End While dr = cmd.EndExecuteReader(ar)

Answer: B

Question: 166

You are creating a DataTable. You use the following code segment to create the DataTable. (Line numbers are included for reference only.)

```
01 Dim dt As New DataTable("Products")
02 dt.Columns.Add(New DataColumn("Price", _ GetType(Decimal)))
03 dt.Columns.Add(New DataColumn("Quantity", _ GetType(Int32)))
04 Dim dc As DataColumn = New DataColumn("Total", _ GetType(Decimal))
05 dt.Columns.Add(dc)
```

You need to ensure that the Total column is set to the value of the Price column multiplied by the Quantity column when new rows are added or changed. What should you do?

- A. Add the following code segment after line 05. dc.ExtendedProperties("Total") = "Price * Quantity"
- B. Add the following code segment after line 05. dc.Expression = "Price * Quantity"
- C. Write an event handler for the DataTable's TableNewRow event that updates the row's Total.
- D. Write an event handler for the DataTable's ColumnChanged event that updates the row's Total.

Answer: B

Question: 167

You are creating a mobile Web Form that dynamically displays news items. You want to display news items by using an instance of a mobile TextView control named TextViewNews. You need to configure the Web Form that contains TextViewNews. The Web Form must enable pagination in case a user's device does not display the full text of a news item. Which code segment should you use?

- A. Dim ps As PagerStyle = New PagerStyle() ps.NextPageText = "more >" ps.PreviousPageText = "< back" FormNews.Paginate = True
- B. FormNews.PagerStyle.NextPageText = "more >" FormNews.PagerStyle.PreviousPageText = "< back" TextViewNews.PaginateRecursive(New ControlPager(FormNews, 1000))
- C. FormNews.PagerStyle.NextPageText = "more >" FormNews.PagerStyle.PreviousPageText = "< back" FormNews.PaginateRecursive(New ControlPager(FormNews, 1000))
- D. FormNews.PagerStyle.NextPageText = "more >" FormNews.PagerStyle.PreviousPageText = "< back" FormNews.Paginate = True

Answer: D

Question: 168

You create a Web Form. The Web Form allows users to calculate values and display the results

in a label named lblResults. You need to capture all unhandled exceptions on the Web Form through the Error event. The Error event must capture each unhandled exception and display it on the Web Form. Which code segment should you use?

- A. Protected Sub Page_Error(ByVal sender As Object, _ ByVal e As System.EventArgs)
Handles Me.Error lblResults.Text = e.ToString() e = NothingEnd Sub
- B. Protected Sub Page_Error(ByVal sender As Object, _ ByVal e As System.EventArgs)
Handles Me.Error lblResults.Text = Server.GetLastError().ToString() Server.ClearError()End Sub
- C. Protected Sub Page_Error(ByVal sender As Object, _ ByVal e As System.EventArgs)
Handles Me.Error Response.Write(e.ToString()) e = NothingEnd Sub
- D. Protected Sub Page_Error(ByVal sender As Object, _ ByVal e As System.EventArgs)
Handles Me.Error Response.Write(Server.GetLastError().ToString()) Server.ClearError()End Sub

Answer: D

Question: 169

You create a Web site that is for members only. The Web site allows members to create lists of users that have access to information about member profiles. The name of the list is stored in the listName variable. The user name of the user to whom access is given is stored in the username variable. You need to enable members to manage their lists of users. Which code segment should you use?

- A. Roles.CreateRole(listName)User.IsInRole(listName)
- B. Roles.CreateRole(listName)Roles.AddUserToRole(username, listName)
- C. Roles.RoleExists(listName)Roles.AddUserToRole(username, listName)
- D. Roles.RoleExists(listName)User.IsInRole(listName)

Answer: B

Question: 170

You create a Web Form that displays a GridView. The GridView's data source is a DataSet named dsOrders.

The DataSet contains two DataTables named Orders and OrderDetails. You create a relation between the two DataTables using the following code segment. (Line numbers are included for reference only.)

```
01 dtOrders = dsOrders.Tables("Orders")
02 dtOrderDetails = dsOrders.Tables("OrderDetails")
03 colParent = dtOrders.Columns("OrderID")
04 colChild = dtOrderDetails.Columns("ParentOrderID")
05 dsOrders.Relations.Add("Rel1", colParent, colChild, False)
```

You need to find the cause of the exception being raised in line 05. What should you do?

- A. Ensure that the child column and the parent column have the same names.
- B. Ensure that the child table and the parent table have the same names.
- C. Ensure that the child column and the parent column have the same data types.
- D. Ensure that each row in the child table has a corresponding row in the parent table.
- E. Ensure that the tables have an explicit relationship defined by a foreign key constraint in the database.

Answer: B

Question: 171

You are creating a Web Form. You write the following code segment to create a SqlCommand object. Dim conn As SqlConnection = New SqlConnection(connString)conn.Open()Dim cmd As

SqlCommand = conn.CreateCommand()cmd.CommandText = "select count(*) from Customers" You need to display the number of customers in the Customers table. Which two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Dim customerCount As Object = cmd.ExecuteScalar()
lblCompanyName.Text = customerCount.ToString()
- B. Dim customerCount As Integer = cmd.ExecuteNonQuery()
lblCompanyName.Text = customerCount.ToString()
- C. Dim dr As SqlDataReader = cmd.ExecuteReader()dr.Read()
lblCompanyName.Text = dr(0).ToString()
- D. Dim dr As SqlDataReader = cmd.ExecuteReader()dr.Read()
lblCompanyName.Text = dr.ToString()

Answer: A, C

Question: 172

You load an XmlDocument named doc with the following XML.
<bookstore>

```
<books>
<book genre="reference" >
<title>Dictionary</title>
</book>
<book genre="reference" >
<title>World Atlas</title> <
/book>
</books>
</bookstore>
```

You need to change the value for the genre attribute to NA for all book attributes. First, you add the following code segment to your class. Dim root As XmlElement = doc.DocumentElement Dim nodes As XmlNodeList = root.SelectNodes("books/book") Which additional two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Dim node As XmlNode For Each node In nodes node.Attributes(0).Value = "NA" Next node
- B. Dim node As XmlNode For Each node In nodes node.Attributes(1).Value = "NA" Next node
- C. Dim node As XmlNode For Each node In nodes Dim genre As XmlNode = node.SelectSingleNode("/genre") genre.Value = "NA" Next node
- D. Dim node As XmlNode For Each node In nodes Dim genre As XmlNode = node.SelectSingleNode("@genre") genre.Value = "NA" Next node
- E. Dim node As XmlNode For Each node In nodes Dim genre As XmlNode = node.SelectSingleNode("genre") genre.Value = "NA" Next node

Answer: A, D

Question: 173

Your Web site processes book orders. One of the application methods contains the following code segment. Dim doc As New XmlDocument() doc.LoadXml("<book><discount>10</discount>" & "<title>Dictionary</title></book>") You need to remove the discount element from XmlDocument. Which two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Dim root As XmlNode = doc.DocumentElementroot.RemoveChild(root.FirstChild)
- B. Dim root As XmlNode = doc.DocumentElementroot.RemoveChild(root.SelectSingleNode("discount"))
- C. doc.RemoveChild(doc.FirstChild)
- D. doc.DocumentElement.RemoveChild(doc.FirstChild)

Answer: A, B

Question: 174

You develop a Web application that writes data to a file on a server. You restrict access to the file to specific Windows users. The Web application runs as CONTOSO\ASPNET. You deny anonymous access to the application in IIS. You add the following XML segment in the Web.config file. <authentication mode="Windows"/> You need to ensure that the application meets the following requirements: It must impersonate the user when it writes data to the file. It must run as CONTOSO\ASPNET when a user does not access the file. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Use the following XML segment in the Web.config file. <identity impersonate="false"/>
- B. Use the following XML segment in the Web.config file. <identity impersonate="true"/>

- C. Use the following code segment to access the file. Dim wp As WindowsPrincipal = _CType(HttpContext.Current.User, WindowsPrincipal) Dim wi As WindowsIdentity = WindowsIdentity.GetCurrent() Dim wic As WindowsImpersonationContext = wi.Impersonate()' Access the file herewic.Undo()
- D. Use the following code segment to access the file. Dim wi As WindowsIdentity = WindowsIdentity.GetCurrent() Dim wic As WindowsImpersonationContext = _WindowsIdentity.Impersonate(wi.Token)' Access the file herewic.Undo()

Answer: A, C

Question: 175

You are working on an existing Web site. You need to secure the Web site by redirecting all users to the logon page, Login.aspx. After logging on, users must be sent back to the page that they originally requested. Which code segment should you use?

- A. In the Web.config file: <authorization> <deny users="*" /></authorization> On each page in the Web site: Protected Sub Page_Load(ByVal sender As Object, _ ByVal e As System.EventArgs) Handles Me.Load FormsAuthentication.Initialize() End Sub
- B. On each page in the Web site: Protected Sub Page_Load(ByVal sender As Object, _ ByVal e As System.EventArgs) Handles Me.Load FormsAuthentication RedirectToLoginPage("login.aspx") End Sub
- C. On each page in the Web site: Protected Sub Page_Load(ByVal sender As Object, _ ByVal e As System.EventArgs) Handles Me.Load Response.Redirect("login.aspx") End Sub
- D. In the Web.config file: <authentication mode="Forms"> <forms name=".ASPXUSERDEMO" loginUrl="login.aspx" protection="All" timeout="60" /></authentication>

Answer: D

Question: 176

You are developing a Web application. The Web application restricts access to an administrative page. The Web application uses the following code segment to protect the page.
If Page.User.Identity.Name <> "CONTOSO\Administrator" Then Response.Redirect("login.aspx")

End If You are logged on as Administrator. When you display the page, you are redirected to Login.aspx. You discover that the User.Identity.Name property is not being correctly populated. You need to ensure that you can access the page when you are logged on as Administrator. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. In the Web.config file, enable impersonation.
- B. In IIS, enable anonymous access.
- C. In IIS, disable anonymous access.
- D. In the Web.config file, set the authentication mode to Windows.

Answer: C, D

Question: 177

You use Reflection to obtain information about a method named MyMethod. You need to ascertain whether MyMethod is accessible to a derived class. What should you do?

- A. Call the IsAssembly property of the MethodInfo class.
- B. Call the IsVirtual property of the MethodInfo class.
- C. Call the IsStatic property of the MethodInfo class.
- D. Call the IsFamily property of the MethodInfo class.

Answer: D

Question: 178

You are creating a class that uses unmanaged resources. This class maintains references to managed resources on other objects. You need to ensure that users of this class can explicitly release resources when the class instance ceases to be needed. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Define the class such that it inherits from the WeakReference class.
- B. Define the class such that it implements the IDisposable interface.
- C. Create a class destructor that calls methods on other objects to release the managed resources.
- D. Create a class destructor that releases the unmanaged resources.
- E. Create a Dispose method that calls System.GC.Collect to force garbage collection.
- F. Create a Dispose method that releases unmanaged resources and calls methods on other objects to release the managed resources.

Answer: B, D, F

Question: 179

You are working on a debug build of an application. You need to find the line of code that caused an exception to be thrown. Which property of the Exception class should you use to achieve this goal?

- A. Data
- B. Message
- C. StackTrace
- D. Source

Answer: C

Question: 180

Your application uses two threads, named thread One and thread Two.

You need to modify the code to prevent the execution of thread One until thread Two completes execution. What should you do?

- A. Configure threadOne to run at a lower priority.
- B. Configure threadTwo to run at a higher priority.
- C. Use a WaitCallback delegate to synchronize the threads.
- D. Call the Sleep method of threadOne.
- E. Call the SpinLock method of threadOne.

Answer: C

Question: 181

You work as a developer at Company.com. You are creating an application that provides information about the local computer. The application contains a form that lists each logical drive with the drive properties, such as type, volume label, and capacity.

You are required to write a procedure that retrieves properties of each logical drive on the local computer. What should you do?

Arrange the appropriate actions in the correct order.

Action, select from these	Action, place here
Retrieve an instance of the FileSystemInfo class.	Place first, if any, here
Retrieve an instance of the DriveInfo class.	Place second, if any, here
Retrieve the drive capacity by using the DriveInfo.TotalSize property.	Place third, if any, here
Determine if the drive is available by using the FileSystemInfo.Attributes property.	Place fourth, if any, here
Retrieve the drive names of all logical drives on a computer by using the DriveInfo.GetDrives method.	Place fifth, if any, here
Retrieve the drive capacity by using the FileSystemInfo.Attributes property.	Place sixth, if any, here

Answer:

Explanation:

Action, select from these

Retrieve an instance of the FileSystemInfo class.

Determine if the drive is available by using the FileSystemInfo.Attributes property.

Retrieve the drive capacity by using the FileSystemInfo.Attributes property.

Action, place here

Retrieve the drive names of all logical drives on a computer by using the DriveInfo.GetDrives method.

Retrieve an instance of the DriveInfo class.

Retrieve the drive capacity by using the DriveInfo.TotalSize property.

Place fourth, if any, here

Place fifth, if any, here

Place sixth, if any, here

Question: 182

You work as a developer at Company.com. You are creating an assembly named Company1. Company1 contains a public method. The global cache contains a second assembly named Company2.

You must ensure that the public method is only called from Company2.
Which permission class should you use?

- A. GacIdentityPermission
- B. PublisherIdentityPermission
- C. DataProtectionPermission
- D. StrongNameIdentityPermission

Answer: D

Question: 183

You are developing an application that receives events asynchronously. You create a WqlEventQuery instance to specify the events and event conditions to which the application must respond. You also create a ManagementEventWatcher instance to subscribe to events matching the query. You need to identify the other actions you must perform before the application can receive events asynchronously. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Start listening for events by calling the Start method of the ManagementEventWatcher.
- B. Set up a listener for events by using the EventArrived event of the ManagementEventWatcher.
- C. Use the WaitForNextEvent method of the ManagementEventWatcher to wait for the events.
- D. Create an event handler class that has a method that receives an ObjectReadyEventArgs parameter.
- E. Set up a listener for events by using the Stopped event of the ManagementEventWatcher.

Answer: A, B

Question: 184

You need to select a class that is optimized for key-based item retrieval from both small and large collections.
Which class should you choose?

- A. OrderedDictionary class
- B. HybridDictionary class
- C. ListDictionary class
- D. Hashtable class

Answer: B

Question: 185

You need to call an unmanaged function from your managed code by using platform invoke services. What should you do?

- A. Create a class to hold DLL functions and then create prototype methods by using managed code.
- B. Register your assembly by using COM and then reference your managed code from COM.
- C. Export a type library for your managed code.
- D. Import a type library as an assembly and then create instances of COM object.

Answer: A

Question: 186

Your application uses two threads, named threadOne and threadTwo.

You need to modify the code to prevent the execution of threadOne until threadTwo completes execution.

What should you do?

- A. Configure threadOne to run at a lower priority.
- B. Configure threadTwo to run at a higher priority.
- C. Use a WaitCallback delegate to synchronize the threads.
- D. Call the Sleep method of threadOne.
- E. Call the SpinLock method of threadOne.

Answer: C

Question: 187

You need to identify a type that meets the following criteria: ?

Is always a number.?

Is not greater than 65,535.

Which type should you choose?

- A. System.UInt16
- B. int
- C. System.String
- D. System.IntPtr

Answer: A

Question: 188

You are developing an application that will perform mathematical calculations.

You need to ensure that the application is able to perform multiple calculations simultaneously.

What should you do?

- A. Set the IdealProcessor property of the ProcessThread object.
- B. Set the ProcessorAffinity property of the ProcessThread object.
- C. For each calculation, call the QueueUserWorkItem method of the ThreadPool class.
- D. Set the Process.GetCurrentProcess().BasePriority property to High.

Answer: C

Question: 189

Company.com uses an application named Application1 that was compiled by using the .NET version 1.0. The application currently runs on a shared computer on which the .NET

versions 1.0 and 1.1 are installed.

You need to move the application to a new computer on which the .NET versions 1.1 and 2.0 are installed. The application is compatible with the .NET 1.1, but it is incompatible with the .NET 2.0. You need to ensure that the application will use the .NET version 1.1 on the new computer. What should you do?

A. Add the following XML element to the application configuration file.

```
<configuration>
<startup>
<supportedRuntime version="1.1.4322" />
</startup>
</configuration>
```

B. Add the following XML element to the application configuration file.

```
<configuration>
<runtime>
<assemblyBinding
xmlns="urn:schemas-microsoft-com:asm.v1">
<dependentAssembly>
<assemblyIdentity name="Application1"
publicKeyToken="32ab4ba45e0a69a1"
culture="neutral" />
<bindingRedirect oldVersion="1.0.3075.0"
newVersion="1.1.4322.0"/>
</dependentAssembly>
</assemblyBinding>
</runtime>
</configuration>
```

C. Add the following XML element to the machine configuration file.

```
<configuration>
<startup>
<requiredRuntime version="1.1.4322" />
</startup>
</configuration>
```

D. Add the following XML element to the machine configuration file.

```
<configuration>
<runtime>
<assemblyBinding
xmlns="urn:schemas-microsoft-com:asm.v1">
<dependentAssembly>
<assemblyIdentity name="Application1"
publicKeyToken="32ab4ba45e0a69a1"
culture="neutral" />
<bindingRedirect oldVersion="1.0.3075.0"
newVersion="1.1.4322.0"/>
</dependentAssembly>
</assemblyBinding>
</runtime>
</configuration>
```

Answer: A

Question: 190

You are creating a strong-named assembly named Company1 that will be used in multiple applications. Company1 will be rebuilt frequently during the development cycle. You need to ensure that each time the assembly is rebuilt it works correctly with each application that uses it. You need to configure the computer on which you develop Company1 such that each application uses the latest build of Company1.

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create a DEVPATH environment variable that points to the build output directory for the strong-named assembly.
- B. Add the following XML element to the machine configuration file:
<developmentMode developerInstallation="true"/>
- C. Add the following XML element to the machine configuration file:
<dependentAssembly>
<assemblyIdentity name="Company1" publicKeyToken="32ab4ba45e0a69a1" language="en-US" version="*.*.*.*" />
<publisherPolicy apply="no" />
</dependentAssembly>
- D. Add the following XML element to the configuration file of each application that uses the strong-named assembly: <supportedRuntime version="*.*.*.*" />
- E. Add the following XML element to the configuration file of each application that uses the strong-named assembly:
<dependentAssembly>
<assemblyIdentity name="Company1" publicKeyToken="32ab4ba45e0a69a1" language="en-US" version="*.*.*.*" />
<bindingRedirect newVersion="*.*.*.*" />
</dependentAssembly>

Answer: A, B

Question: 191

You are defining a class named CompanyClass that contains several child objects. CompanyClass contains a method named ProcessChildren that performs actions on the child objects. CompanyClass objects will be serializable. You need to ensure that the ProcessChildren method is executed after the CompanyClass object and all its child objects are reconstructed. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Apply the OnDeserializing attribute to the ProcessChildren method.
- B. Specify that CompanyClass implements the IDeserializationCallback interface.
- C. Specify that CompanyClass inherits from the ObjectManager class.
- D. Apply the OnSerialized attribute to the ProcessChildren method.
- E. Create a GetObjectData method that calls ProcessChildren.
- F. Create an OnDeserialization method that calls ProcessChildren.

Answer: B, F

Question: 192

You develop a service application that needs to be deployed. Your network administrator creates a specific user account for your service application. You need to configure your service application to run in the context of this specific user account. What should you do?

- A. Prior to installation, set the StartType property of the ServiceInstaller class.
- B. Prior to installation, set the Account, Username, and Password properties of the ServiceProcessInstaller class.
- C. Use the CONFIG option of the net.exe command-line tool to install the service.
- D. Use the installutil.exe command-line tool to install the service.

Answer: B

Question: 193

You work as a developer at Company.com. You are developing an application to create a new file on the local file system.

You need to define specific security settings for the file. You must deny the file inheritance of any default security settings.

What should you do?

Action, select from these	Action, place here
Create the file by using a new FileStream object by passing the FileSecurity object as a parameter to the FileStream constructor.	Place first, if any, here
Create a new FileSecurity object.	Place second, if any, here
Apply the permissions by using the File class	Place third, if any, here
Create a new FileSystemAccessRule object for each permission that you need, and add each rule to the FileSecurity object.	Place fourth, if any, here
Create a new FileSystemAuditRule object and add it to the FileSecurity object.	Place fifth, if any, here

Answer:

Explanation:

Action, select from these	Action, place here
Create the file by using a new FileStream object by passing the FileSecurity object as a parameter to the FileStream constructor.	Create a new FileSecurity object
	Create a new FileSystemAccessRule object for each permission that you need, and add each rule to the FileSecurity object.
	Apply the permissions by using the File class
	Place fourth, if any, here
Create a new FileSystemAuditRule object and add it to the FileSecurity object.	Place fifth, if any, here

Question: 194

You are developing a method to call a COM component. You need to use declarative security to explicitly request the runtime to perform a full stack walk. You must ensure that all callers have the required level of trust for COM interop before the callers execute your method. Which attribute should you place on the method?

- A. [SecurityPermission(SecurityAction::Demand, Flags=SecurityPermissionFlag::UnmanagedCode)]
- B. [SecurityPermission(SecurityAction::LinkDemand, Flags=SecurityPermissionFlag::UnmanagedCode)]
- C. [SecurityPermission(SecurityAction::Assert, Flags = SecurityPermissionFlag::UnmanagedCode)]

D. [SecurityPermission(
SecurityAction::Deny,
Flags = SecurityPermissionFlag::UnmanagedCode)]

Answer: A

Question: 195

You work as a developer at Company.com. You create a service application that monitors free space on a hard disk drive.

You must ensure that the service application runs in the background and monitors the free space every minute.

What should you do?

Action, select from these	Action, place here
Add code to the default constructor of the Service class to monitor the free space on the hard disk drive.	Place first, if any, here
Add code to the OnStart method of the Service class to monitor the free space on the hard disk drive.	Place second, if any, here
Add an instance of the System.Windows.Forms.Timer class to the Service class and configure it to fire every minute.	Place third, if any, here
Add an instance of the System.Timers.Timer class to the Service class and configure it to fire every minute.	Place fourth, if any, here
Add code to the OnStart method of the Service class to start the timer.	Place fifth, if any, here
Add code to the Elapsed event handler of the timer to monitor the free space on the hard disk drive.	Place sixth, if any, here
Add code to the Tick event handler of the timer to monitor the free space on the hard disk drive.	Place 7th, if any, here

Answer:

Explanation:

Action, select from these	Action, place here
Add code to the default constructor of the Service class to monitor the free space on the hard disk drive.	Add an instance of the System.Timers.Timer class to the Service class and configure it to fire every minute.
Add code to the OnStart method of the Service class to monitor the free space on the hard disk drive.	Add code to the OnStart method of the Service class to start the timer.
Add an instance of the System.Windows.Forms.Timer class to the Service class and configure it to fire every minute.	Add code to the Elapsed event handler of the timer to monitor the free space on the hard disk drive.
	Place fourth, if any, here
	Place fifth, if any, here
	Place sixth, if any, here
Add code to the Tick event handler of the timer to monitor the free space on the hard disk drive.	Place 7th, if any, here

Question: 196

You are developing a custom event handler to automatically print all open documents. The event handler helps specify the number of copies to be printed. You need to develop a custom event arguments class to pass as a parameter to the event handler.

Which code segment should you use?

A. public class PrintingArgs {

```

private int copies;
public PrintingArgs(int numberOfCopies) {
this.copies = numberOfCopies;
}
public int Copies {
get { return this.copies;
}
}}
B. public class PrintingArgs : EventArgs {
private int copies;
public PrintingArgs(int numberOfCopies) {
this.copies = numberOfCopies;
}
public int Copies {
get { return this.copies;
}
}
}
C. public class PrintingArgs {
private EventArgs eventArgs;
public PrintingArgs(EventArgs ea) {
this.eventArgs = ea;
}public EventArgs Args {get { return eventArgs;
}}}
D. public class PrintingArgs : EventArgs {
private int copies;
}

```

Answer: B

Question: 197

You are testing a newly developed method named PersistToDB. This method accepts a parameter of type EventLogEntry. This method does not return a value. You need to create a code segment that helps you to test the method. The code segment must read entries from the application log of local computers and then pass the entries on to the PersistToDB method. The code block must pass only events of type Error or Warning from the source MySource to the PersistToDB method.

Which code segment should you use?

```

A. EventLog myLog = new EventLog("Application", ".");
foreach (EventLogEntry entry in myLog.Entries)
{
if (entry.Source == "MySource")
{
PersistToDB(entry);
}
}
B. EventLog myLog = new EventLog("Application", ".");
myLog.Source = "MySource";
foreach (EventLogEntry entry in myLog.Entries)
{
if (entry.EntryType == (EventLogEntryType.Error &
EventLogEntryType.Warning))
{
PersistToDB(entry);
}
}
C. EventLog myLog = new EventLog("Application", ".");
foreach (EventLogEntry entry in myLog.Entries)

```

```

{
if (entry.Source == "MySource")
{
if (entry.EntryType == EventLogEntryType.Error ||
entry.EntryType == EventLogEntryType.Warning)
{
PersistToDB(entry);
} } }
D. EventLog myLog = new EventLog("Application", ".");
myLog.Source = "MySource";
foreach (EventLogEntry entry in myLog.Entries)
{
if (entry.EntryType == EventLogEntryType.Error ||
entry.EntryType == EventLogEntryType.Warning)
{
PersistToDB(entry);
}
}

```

Answer: C

Question: 198

You create an application to send a message by e-mail. An SMTP server is available on the local subnet. The SMTP server is named smtp.Company.com.

To test the application, you use a source address, me@Company.com, and a target address, you@Company.com.

You need to transmit the e-mail message. Which code segment should you use?

A. MailAddress addrFrom =
new MailAddress("me@Company.com", "Me");
MailAddress addrTo =
new MailAddress("you@Company.com", "You");
MailMessage message = new MailMessage(addrFrom, addrTo);
message.Subject = "Greetings!";
message.Body = "Test";
message.Dispose();

B. string strSmtpClient = "smtp.Company.com";
string strFrom = "me@Company.com";
string strTo = "you@Company.com";
string strSubject = "Greetings!";
string strBody = "Test";
MailMessage msg =
new MailMessage(strFrom, strTo, strSubject, strSmtpClient);

C. MailAddress addrFrom = new MailAddress("me@Company.com");
MailAddress addrTo = new MailAddress("you@Company.com");
MailMessage message = new MailMessage(addrFrom, addrTo);
message.Subject = "Greetings!";
message.Body = "Test";
SmtpClient client = new SmtpClient("smtp.Company.com");
client.Send(message);

D. MailAddress addrFrom =
new MailAddress("me@Company.com", "Me");
MailAddress addrTo =
new MailAddress("you@Company.com", "You");
MailMessage message = new MailMessage(addrFrom, addrTo);
message.Subject = "Greetings!";
message.Body = "Test";
SocketInformation info = new SocketInformation();

```

Socket client = new Socket(info);
System.Text.ASCIIEncoding enc =
new System.Text.ASCIIEncoding();
byte[] msgBytes = enc.GetBytes(message.ToString());
client.Send(msgBytes);

```

Answer: C

Question: 199

You are developing an application to perform mathematical calculations. You develop a class named CalculationValues. You write a procedure named PerformCalculation that operates on an instance of the class. You need to ensure that the user interface of the application continues to respond while calculations are being performed. You need to write a code segment that calls the PerformCalculation procedure to achieve this goal. Which code segment should you use?

- A.

```
private void PerformCalculation() {...} private void DoWork(){
CalculationValues myValues = new CalculationValues();
Thread newThread = new Thread(
new ThreadStart(PerformCalculation));
newThread.Start(myValues);
}
```
- B.

```
private void PerformCalculation() {...} private void DoWork(){
CalculationValues myValues = new CalculationValues();
ThreadStart delStart = new
ThreadStart(PerformCalculation);
Thread newThread = new Thread(delStart);
if (newThread.IsAlive) {newThread.Start(myValues);
}}
```
- C.

```
private void PerformCalculation (CalculationValues values) {...} private void DoWork(){
CalculationValues myValues = new CalculationValues();
Application.DoEvents();
PerformCalculation(myValues);
Application.DoEvents();
}
```
- D.

```
private void PerformCalculation(object values) {...} private void DoWork(){
CalculationValues myValues = new CalculationValues();
Thread newThread = new Thread(
new ParameterizedThreadStart(PerformCalculation));
newThread.Start(myValues);
}
```

Answer: D

Question: 200

You write the following code. public delegate void FaxDocs(object sender, FaxArgs args);
You need to create an event that will invoke FaxDocs. Which code segment should you use?

- A.

```
public static event FaxDocs Fax;
```
- B.

```
public static event Fax FaxDocs;
```
- C.

```
public class FaxArgs : EventArgs {
private string coverPageInfo;
public FaxArgs(string coverInfo) {
this.coverPageInfo = coverPageInfo;
}
public string CoverPageInformation {
get {return this.coverPageInfo;
```

```

}
}}
D. public class FaxArgs : EventArgs {
private string coverPageInfo;
public string CoverPageInformation {
get {return this.coverPageInfo;
}
}}

```

Answer: A

Question: 201

You write the following code segment to call a function from the Win32 Application Programming Interface (API) by using platform invoke.

```

string personName = "Nel";
string msg = "Welcome " + personName + " to club ";
bool rc = User32API.MessageBox(0, msg, personName, 0);

```

You need to define a method prototype that can best marshal the string data. Which code segment should you use?

```

A. [DllImport("user32", CharSet = CharSet.Ansi)]public static extern bool MessageBox(int hWnd,
String text,
String caption, uint type);
}
B. [DllImport("user32", EntryPoint = "MessageBoxA", CharSet = CharSet.Ansi)]public static
extern bool MessageBox(int hWnd,
[MarshalAs(UnmanagedType.LPWStr)]String text,
[MarshalAs(UnmanagedType.LPWStr)]String caption,
uint type);
}
C. [DllImport("user32", CharSet = CharSet.Unicode)]public static extern bool MessageBox(int
hWnd, String text, String caption, uint type);
}
D. [DllImport("user32", EntryPoint = "MessageBoxA", CharSet = CharSet.Unicode)]public static
extern bool MessageBox(int hWnd,
[MarshalAs(UnmanagedType.LPWStr)]String text,
[MarshalAs(UnmanagedType.LPWStr)]String caption,
uint type);
}

```

Answer: C

Question: 202

You are writing a method to compress an array of bytes. The array is passed to the method in a parameter named document. You need to compress the incoming array of bytes and return the result as an array of bytes.

Which code segment should you use?

```

A. MemoryStream strm = new MemoryStream(document);
DeflateStream deflate = new DeflateStream(strm,
CompressionMode.Compress);
byte[] result = new byte[document.Length];
deflate.Write(result, 0, result.Length);
return result;
B. MemoryStream strm = new MemoryStream(document);
DeflateStream deflate = new DeflateStream(strm,

```

```

CompressionMode.Compress);
deflate.Write(document, 0, document.Length);
deflate.Close();
return strm.ToArray();
C. MemoryStream strm = new MemoryStream();
DeflateStream deflate = new DeflateStream(strm,
CompressionMode.Compress);
deflate.Write(document, 0, document.Length);
deflate.Close();
return strm.ToArray();
D. MemoryStream inStream = new MemoryStream(document);
DeflateStream deflate = new DeflateStream(inStream,
CompressionMode.Compress);
MemoryStream outStream = new MemoryStream();
int b;
while ((b = deflate.ReadByte()) != -1) {
outStream.WriteByte((byte)b);
} return outStream.ToArray();

```

Answer: C

Question: 203

You are writing an application that uses SOAP to exchange data with other applications. You use a Department class that inherits from ArrayList to send objects to another application. The Department object is named dept. You need to ensure that the application serializes the Department object for transport by using SOAP. Which code should you use?

```

A. SoapFormatter formatter = new SoapFormatter();
byte[] buffer = new byte[dept.Capacity];
MemoryStream stream = new MemoryStream(buffer);
foreach (object o in dept) {
formatter.Serialize(stream, o);
}
B. SoapFormatter formatter = new SoapFormatter();
byte[] buffer = new byte[dept.Capacity];
MemoryStream stream = new MemoryStream(buffer);
formatter.Serialize(stream, dept);
C. SoapFormatter formatter = new SoapFormatter();
MemoryStream stream = new MemoryStream();
foreach (object o in dept) {
formatter.Serialize(stream, o);
}
D. SoapFormatter formatter = new SoapFormatter();
MemoryStream stream = new MemoryStream();
formatter.Serialize(stream, dept);

```

Answer: D

Question: 204

You need to create a class definition that is interoperable along with COM. You need to ensure that COM applications can create instances of the class and can call the GetAddress method. Which code segment should you use?

```

A. public class Customer {
string addressString;
public Customer(string address) { addressString = address;

```

```

}
public string GetAddress() { return addressString;
}}
B. public class Customer {
static string addressString;
public Customer() { }
public static string GetAddress() { return addressString;
}}
C. public class Customer {
string addressString;
public Customer() { }
public string GetAddress() { return addressString;
}}
D. public class Customer {
string addressString;
public Customer() { }
internal string GetAddress() { return addressString;
}}

```

Answer: C

Question: 205

You are developing a class library. Portions of your code need to access system environment variables.

You need to force a runtime `SecurityException` only when callers that are higher in the call stack do not have the necessary permissions.

Which call method should you use?

- A. `set.Demand();`
- B. `set.Assert();`
- C. `set.PermitOnly();`
- D. `set.Deny();`

Answer: A

Question: 206

You are developing a method to hash data with the Secure Hash Algorithm. The data is passed to your method as a byte array named `message`. You need to compute the hash of the incoming parameter by using SHA1. You also need to place the result into a byte array named `hash`. Which code segment should you use?

- A. `SHA1 sha = new SHA1CryptoServiceProvider();`
`byte[] hash = null;`
`sha.TransformBlock(`
`message, 0, message.Length, hash, 0);`
- B. `SHA1 sha = new SHA1CryptoServiceProvider();`
`byte[] hash = BitConverter.GetBytes(sha.GetHashCode());`
- C. `SHA1 sha = new SHA1CryptoServiceProvider();`
`byte[] hash = sha.ComputeHash(message);`
- D. `SHA1 sha = new SHA1CryptoServiceProvider();`
`sha.GetHashCode();`
`byte[] hash = sha.Hash;`

Answer: C

Question: 207

You are developing a method to hash data for later verification by using the MD5 algorithm. The data is passed to your method as a byte array named message. You need to compute the hash of the incoming parameter by using MD5. You also need to place the result into a byte array. Which code segment should you use?

A. `HashAlgorithm algo = HashAlgorithm.Create("MD5");
byte[] hash = algo.ComputeHash(message);`
B. `HashAlgorithm algo = HashAlgorithm.Create("MD5");
byte[] hash = BitConverter.GetBytes(algo.GetHashCode());`
C. `HashAlgorithm algo;
algo = HashAlgorithm.Create(message.ToString());
byte[] hash = algo.Hash;`
D. `HashAlgorithm algo = HashAlgorithm.Create("MD5");
byte[] hash = null;
algo.TransformBlock(message, 0, message.Length, hash, 0);`

Answer: A

Question: 208

You need to create a dynamic assembly named MyAssembly. You also need to save the assembly to disk. Which code segment should you use?

A. `AssemblyName myAssemblyName =
new AssemblyName();
myAssemblyName.Name = "MyAssembly";
AssemblyBuilder myAssemblyBuilder =
AppDomain.CurrentDomain.DefineDynamicAssembly
(myAssemblyName, AssemblyBuilderAccess.Run);
myAssemblyBuilder.Save("MyAssembly.dll");`
B. `AssemblyName myAssemblyName =
new AssemblyName();
myAssemblyName.Name = "MyAssembly";
AssemblyBuilder myAssemblyBuilder =
AppDomain.CurrentDomain.DefineDynamicAssembly
(myAssemblyName, AssemblyBuilderAccess.Save);
myAssemblyBuilder.Save("MyAssembly.dll");`
C. `AssemblyName myAssemblyName =
new AssemblyName();
AssemblyBuilder myAssemblyBuilder =
AppDomain.CurrentDomain.DefineDynamicAssembly
(myAssemblyName, AssemblyBuilderAccess.RunAndSave);
myAssemblyBuilder.Save("MyAssembly.dll");`
D. `AssemblyName myAssemblyName =
new AssemblyName("MyAssembly");
AssemblyBuilder myAssemblyBuilder =
AppDomain.CurrentDomain.DefineDynamicAssembly
(myAssemblyName, AssemblyBuilderAccess.Save);
myAssemblyBuilder.Save("c:\\MyAssembly.dll");`

Answer: B

Question: 209

You are writing code for user authentication and authorization. The username, password, and roles are stored in your application data store. You need to establish a user security context that will be used for authorization checks such as

IsInRole. You write the following code segment to authorize the user.

```
if (!TestPassword(userName, password))
```

```
throw new Exception("could not authenticate user");
```

```
String[] userRolesArray = LookupUserRoles(userName);
```

You need to complete this code so that it establishes the user security context. Which code segment should you use?

A. GenericIdentity ident = new GenericIdentity(userName);

GenericPrincipal currentUser =

new GenericPrincipal(ident, userRolesArray);

Thread.CurrentPrincipal = currentUser;

B. WindowsIdentity ident = new WindowsIdentity(userName);

WindowsPrincipal currentUser = new WindowsPrincipal(ident);

Thread.CurrentPrincipal = currentUser;

C. NTAccount userNTName = new NTAccount(userName);

GenericIdentity ident = new GenericIdentity(userNTName.Value);

GenericPrincipal currentUser = new GenericPrincipal(ident, userRolesArray);

Thread.CurrentPrincipal = currentUser;

D. IntPtr token = IntPtr.Zero;

token = LogonUserUsingInterop(userName, encryptedPassword);

WindowsImpersonationContext ctx =

WindowsIdentity.Impersonate(token);

Answer: A

Question: 210

You are developing an application for a client residing in Hong Kong.

You need to display negative currency values by using a minus sign. Which code segment should you use?

A. NumberFormatInfo culture =

new CultureInfo("zh-HK").NumberFormat;

culture.NumberNegativePattern = 1;

return numberToPrint.ToString("C", culture);

B. NumberFormatInfo culture =

new CultureInfo("zh-HK").NumberFormat;

culture.CurrencyNegativePattern = 1;

return numberToPrint.ToString("C", culture);

C. CultureInfo culture =

new CultureInfo("zh-HK");

return numberToPrint.ToString("-(0)", culture);

D. CultureInfo culture =

new CultureInfo("zh-HK");

return numberToPrint.ToString("()", culture);

Answer: B

Question: 211

You need to create a method to clear a Queue named q. Which code segment should you use?

A. for each (Object^ e in q) {

q.Dequeue();

}

B. for each (Object^ e in q) {

q.Enqueue(0);

}

- C. q.Clear();
- D. q.Dequeue();

Answer: C

Question: 212

You are developing an application that dynamically loads assemblies from an application directory.

You need to write a code segment that loads an assembly named Company1.dll into the current application domain. Which code segment should you use?

- A. AppDomain domain = AppDomain.CurrentDomain;
string myPath = Path.Combine(domain.BaseDirectory, "Company1.dll");
Assembly asm = Assembly.LoadFrom(myPath);
- B. AppDomain domain = AppDomain.CurrentDomain;
string myPath = Path.Combine(domain.BaseDirectory, "Company1.dll");
Assembly asm = Assembly.Load(myPath);
- C. AppDomain domain = AppDomain.CurrentDomain;
string myPath = Path.Combine(domain.DynamicDirectory, "Company1.dll");
Assembly asm = AppDomain.CurrentDomain.Load(myPath);
- D. AppDomain domain = AppDomain.CurrentDomain;
Assembly asm = domain.GetData("Company1.dll");

Answer: A

Question: 213

You need to return the contents of an isolated storage file as a string. The file is machine-scoped and is named Settings.dat. Which code segment should you use?

- A. IsolatedStorageFileStream isoStream;
isoStream = new IsolatedStorageFileStream("Settings.dat", FileMode.Open);
string result = new StreamReader(isoStream).ReadToEnd();
- B. IsolatedStorageFile isoFile;
isoFile = IsolatedStorageFile.GetMachineStoreForAssembly();
IsolatedStorageFileStream isoStream;
isoStream = new IsolatedStorageFileStream("Settings.dat", FileMode.Open, isoFile);
string result = new StreamReader(isoStream).ReadToEnd();
- C. IsolatedStorageFileStream isoStream;
isoStream = new IsolatedStorageFileStream("Settings.dat", FileMode.Open);
string result = isoStream.ToString();
- D. IsolatedStorageFile isoFile;
isoFile = IsolatedStorageFile.GetMachineStoreForAssembly();
IsolatedStorageFileStream isoStream;
isoStream = new IsolatedStorageFileStream("Settings.dat", FileMode.Open, isoFile);
string result = isoStream.ToString();

Answer: B

Question: 214

You are creating a class that performs complex financial calculations. The class contains a method named GetCurrentRate that retrieves the current interest rate and a variable named currRate that stores the current interest rate.

You write serialized representations of the class.

You need to write a code segment that updates the currRate variable with the current interest rate when an instance of the class is deserialized. Which code segment should you use?

- A. [OnSerializing]internal void UpdateValue (StreamingContext context) {

```

currRate = GetCurrentRate();
}
B. [OnSerializing]internal void UpdateValue(SerializationInfo info) {
info.AddValue("currentRate", GetCurrentRate());
}
C. [OnDeserializing]internal void UpdateValue(SerializationInfo info) {
info.AddValue("currentRate", GetCurrentRate());
}
D. [OnDeserialized]internal void UpdateValue(StreamingContext context) {
currRate = GetCurrentRate();
}

```

Answer: D

Question: 215

You need to write a multicast delegate that accepts a DateTime argument. Which code segment should you use?

```

A. Public Delegate Function PowerDeviceOn( _
ByVal result As Boolean, _
ByVal autoPowerOff As DateTime) _
As Integer
B. Public Delegate Function PowerDeviceOn( _
ByVal sender As Object, _
ByVal autoPowerOff As EventArgs) _
As Boolean
C. Public Delegate Sub PowerDeviceOn( _
ByVal autoPowerOff As DateTime)
D. Public Delegate Function PowerDeviceOn( _
ByVal autoPowerOff As DateTime) _
As Boolean

```

Answer: C

Question: 216

You are writing an application that uses isolated storage to store user preferences. The application uses multiple assemblies. Multiple users will use this application on the same computer. You need to create a directory named Preferences in the isolated storage area that is scoped to the current Microsoft Windows identity and assembly. Which code segment should you use?

```

A. IsolatedStorageFile store;
store = IsolatedStorageFile.GetUserStoreForAssembly();
store.CreateDirectory("Preferences");
B. IsolatedStorageFile store;
store = IsolatedStorageFile.GetMachineStoreForAssembly();
store.CreateDirectory("Preferences");
C. IsolatedStorageFile store;
store = IsolatedStorageFile.GetUserStoreForDomain();
store.CreateDirectory("Preferences");
D. IsolatedStorageFile store;
store = IsolatedStorageFile.GetMachineStoreForApplication();
store.CreateDirectory("Preferences");

```

Answer: A

Question: 217

You are loading a new assembly into an application. You need to override the default evidence for the assembly. You require the common language runtime (CLR) to grant the assembly a permission set, as if the assembly were loaded from the local intranet zone.

You need to build the evidence collection. Which code segment should you use?

- A. Evidence evidence = new Evidence(Assembly.GetExecutingAssembly().Evidence);
- B. Evidence evidence = new Evidence(); evidence.AddAssembly(new Zone(SecurityZone.Intranet));
- C. Evidence evidence = new Evidence(); evidence.AddHost(new Zone(SecurityZone.Intranet));
- D. Evidence evidence = new Evidence(AppDomain.CurrentDomain.Evidence);

Answer: C

Question: 218

You are developing a class library that will open the network socket connections to computers on the network.

You will deploy the class library to the global assembly cache and grant it full trust. You write the following code to ensure usage of the socket connections.

```
SocketPermission permission =  
new SocketPermission(PermissionState.Unrestricted);  
permission.Assert();
```

Some of the applications that use the class library might not have the necessary permissions to open the network socket connections.

You need to cancel the assertion.

Which code segment should you use?

- A. CodeAccessPermission.RevertAssert();
- B. CodeAccessPermission.RevertDeny();
- C. permission.Deny();
- D. permission.PermitsOnly();

Answer: A

Question: 219

You develop a service application named FileService. You deploy the service application to multiple servers on your network. You implement the following code segment. (Line numbers are included for reference only.)

```
01 public void StartService(string serverName){  
02 ServiceController ctrl = new  
03 ServiceController("FileService");  
04 if (ctrl.Status == ServiceControllerStatus.Stopped){  
05 }  
06 }
```

You need to develop a routine that will start FileService if it stops. The routine must start FileService on the server identified by the serverName input parameter.

Which two lines of code should you add to the code segment? (Each correct answer presents part of the solution. Choose two.)

- A. Insert the following line of code between lines 03 and 04: ctrl.ServiceName = serverName;
- B. Insert the following line of code between lines 03 and 04: ctrl.MachineName = serverName;

- C. Insert the following line of code between lines 03 and 04:ctrl.Site.Name = serverName;
- D. Insert the following line of code between lines 04 and 05:ctrl.Continue();
- E. Insert the following line of code between lines 04 and 05:ctrl.Start();
- F. Insert the following line of code between lines 04 and 05:ctrl.ExecuteCommand(0);

Answer: B, E

Question: 220

You are writing code for user authentication and authorization. The username, password, and roles are stored in your application data store.

You need to establish a user security context that will be used for authorization checks such as `IsInRole`. You write the following code segment to authorize the user.

```
if (!TestPassword(userName, password))
    throw new Exception("could not authenticate user");
String[] userRolesArray = LookupUserRoles(userName);
```

You need to complete this code so that it establishes the user security context. Which code segment should you use?

- A. `GenericIdentity ident = new GenericIdentity(userName);`
`GenericPrincipal currentUser =`
`new GenericPrincipal(ident, userRolesArray);`
`Thread.CurrentPrincipal = currentUser;`
- B. `WindowsIdentity ident = new WindowsIdentity(userName);`
`WindowsPrincipal currentUser = new WindowsPrincipal(ident);`
`Thread.CurrentPrincipal = currentUser;`
- C. `NTAccount userNTName = new NTAccount(userName);`
`GenericIdentity ident = new GenericIdentity(userNTName.Value);`
`GenericPrincipal currentUser = new GenericPrincipal(ident, userRolesArray);`
`Thread.CurrentPrincipal = currentUser;`
- D. `IntPtr token = IntPtr.Zero;`
`token = LogonUserUsingInterop(userName, encryptedPassword);`
`WindowsImpersonationContext ctx =`
`WindowsIdentity.Impersonate(token);`

Answer: A

Question: 221

You create a method that runs by using the credentials of the end user. You need to use Microsoft Windows groups to authorize the user. You must add a code segment that identifies whether a user is in the local group named `Clerk`.

Which code segment should you use?

- A. `WindowsIdentity currentUser = WindowsIdentity.GetCurrent();`
`foreach (IdentityReference grp in currentUser.Groups) {`
`NTAccount grpAccount =`
`((NTAccount)grp.Translate(typeof(NTAccount)));`
`isAuthorized = grpAccount.Value.Equals(Environment.MachineName + @"\Clerk");`
`if (isAuthorized) break;`
`}`
- B. `WindowsPrincipal currentUser =`
`(WindowsPrincipal)Thread.CurrentPrincipal;`
`isAuthorized = currentUser.IsInRole("Clerk");`
- C. `GenericPrincipal currentUser =`
`(GenericPrincipal) Thread.CurrentPrincipal;`
`isAuthorized = currentUser.IsInRole("Clerk");`
- D. `WindowsPrincipal currentUser =`

```
(WindowsPrincipal)Thread.CurrentPrincipal;  
isAuthorized = currentUser.IsInRole(Environment.MachineName);
```

Answer: B

Question: 222

You need to write a code segment that performs the following tasks: ?

Retrieves the name of each paused service. ?

Passes the name to the Add method of Collection1. Which code segment should you use?

```
A. ManagementObjectSearcher searcher = new ManagementObjectSearcher( "Select * from  
Win32_Service where State = 'Paused'");  
foreach (ManagementObject svc in searcher.Get()) { Collection1.Add(svc["DisplayName"]);  
}  
B. ManagementObjectSearcher searcher = new ManagementObjectSearcher( "Select * from  
Win32_Service", "State = 'Paused'");  
foreach (ManagementObject svc in searcher.Get()) { Collection1.Add(svc["DisplayName"]);  
}  
C. ManagementObjectSearcher searcher = new ManagementObjectSearcher( "Select * from  
Win32_Service");  
foreach (ManagementObject svc in searcher.Get()) { if ((string) svc["State"] == "Paused") {  
Collection1.Add(svc["DisplayName"]);  
}}  
D. ManagementObjectSearcher searcher = new ManagementObjectSearcher();  
searcher.Scope = new ManagementScope("Win32_Service");  
foreach (ManagementObject svc in searcher.Get()) { if ((string)svc["State"] == "Paused") {  
Collection1.Add(svc["DisplayName"]);  
}  
}
```

Answer: A

Question: 223

You need to write a code segment that transfers the first 80 bytes from a stream variable named stream1 into a new byte array named byteArray. You also need to ensure that the code segment assigns the number of bytes that are transferred to an integer variable named bytesTransferred. Which code segment should you use?

```
A. bytesTransferred = stream1.Read(byteArray, 0, 80);  
B. for (int i = 0;  
i < 80;  
i++) {  
stream1.WriteByte(byteArray[i]);  
bytesTransferred = i;  
if (!stream1.CanWrite) {  
break;  
}}  
C. while (bytesTransferred < 80) {  
stream1.Seek(1, SeekOrigin.Current);  
byteArray[bytesTransferred++] =  
Convert.ToByte(stream1.ReadByte());  
}  
D. stream1.Write(byteArray, 0, 80);  
bytesTransferred = byteArray.Length;
```

Answer: A

Question: 224

You create an application that stores information about your customers who reside in various regions. You are developing internal utilities for this application. You need to gather regional information about your customers in Canada. Which code segment should you use?

- A. `foreach (CultureInfo culture in CultureInfo.GetCultures(CultureTypes.SpecificCultures)) { // Output the region information...}`
`CultureInfo cultureInfo = new CultureInfo("CA");`
- B. `// Output the region information...`
`RegionInfo regionInfo = new RegionInfo("CA");`
- C. `// Output the region information...`
`RegionInfo regionInfo = new RegionInfo("");`
- D. `if (regionInfo.Name == "CA") {`
`// Output the region information...}`

Answer: C

Question: 225

You are developing a server application that will transmit sensitive information on a network. You create an `X509Certificate` object named `certificate` and a `TcpClient` object named `client`. You need to create an `SslStream` to communicate by using the Transport Layer Security 1.0 protocol. Which code segment should you use?

- A. `SslStream ssl = new SslStream(client.GetStream());`
`ssl.AuthenticateAsServer(certificate, false, SslProtocols.None, true);`
- B. `SslStream ssl = new SslStream(client.GetStream());`
`ssl.AuthenticateAsServer(certificate, false, SslProtocols.Ssl3, true);`
- C. `SslStream ssl = new SslStream(client.GetStream());`
`ssl.AuthenticateAsServer(certificate, false, SslProtocols.Ssl2, true);`
- D. `SslStream ssl = new SslStream(client.GetStream());`
`ssl.AuthenticateAsServer(certificate, false, SslProtocols.Tls, true);`

Answer: D

Question: 226

You are writing a method that accepts a string parameter named `message`. Your method must break the message parameter into individual lines of text and pass each line to a second method named `Process`. Which code segment should you use?

- A. `StringReader reader = new StringReader(message);`
`Process(reader.ReadToEnd());`
`reader.Close();`
- B. `StringReader reader = new StringReader(message);`
`while (reader.Peek() != -1) {`
`string line = reader.Read().ToString();`
`Process(line);`
`}reader.Close();`
- C. `StringReader reader = new StringReader(message);`
`Process(reader.ToString());`
`reader.Close();`

```
D. StringReader reader = new StringReader(message);
while (reader.Peek() != -1) {
    Process(reader.ReadLine());
}reader.Close();
```

Answer: D

Question: 227

You are developing a method to encrypt sensitive data with the Data Encryption Standard (DES) algorithm.

Your method accepts the following parameters:

The byte array to be encrypted, which is named message
An encryption key, which is named key
An initialization vector, which is named iv
You need to encrypt the data. You also need to write the encrypted data to a MemoryStream object.

Which code segment should you use?

```
A. DES des = new DESCryptoServiceProvider();
des.BlockSize = message.Length;
ICryptoTransform crypto = des.CreateEncryptor(key, iv);
MemoryStream cipherStream = new MemoryStream();
CryptoStream cryptoStream = new CryptoStream(cipherStream,
crypto, CryptoStreamMode.Write);
cryptoStream.Write(message, 0, message.Length);
B. DES des = new DESCryptoServiceProvider();
ICryptoTransform crypto = des.CreateDecryptor(key, iv);
MemoryStream cipherStream = new MemoryStream();
CryptoStream cryptoStream = new CryptoStream(cipherStream,
crypto, CryptoStreamMode.Write);
cryptoStream.Write(message, 0, message.Length);
C. DES des = new DESCryptoServiceProvider();
ICryptoTransform crypto = des.CreateEncryptor();
MemoryStream cipherStream = new MemoryStream();
CryptoStream cryptoStream = new CryptoStream(cipherStream,
crypto, CryptoStreamMode.Write);
cryptoStream.Write(message, 0, message.Length);
D. DES des = new DESCryptoServiceProvider();
ICryptoTransform crypto = des.CreateEncryptor(key, iv);
MemoryStream cipherStream = new MemoryStream();
CryptoStream cryptoStream = new CryptoStream(cipherStream,
crypto, CryptoStreamMode.Write);
cryptoStream.Write(message, 0, message.Length);
```

Answer: D

Question: 228

You are creating a new security policy for an application domain. You write the following lines of code.

```
PolicyLevel policy = PolicyLevel.CreateAppDomainLevel();
PolicyStatement noTrustStatement =
    new PolicyStatement(
        policy.GetNamedPermissionSet("Nothing"));
PolicyStatement fullTrustStatement =
    new PolicyStatement(
        policy.GetNamedPermissionSet("FullTrust"));
```

You need to arrange code groups for the policy so that loaded assemblies default to the Nothing permission set.

If the assembly originates from a trusted zone, the security policy must grant the assembly the FullTrust permission set. Which code segment should you use?

- A. `CodeGroup group1 = new FirstMatchCodeGroup(
new ZoneMembershipCondition(SecurityZone.Trusted),
fullTrustStatement);
CodeGroup group2 = new UnionCodeGroup(
new AllMembershipCondition(),
noTrustStatement);
group1.AddChild(group2);`
- B. `CodeGroup group1 = new FirstMatchCodeGroup(
new AllMembershipCondition(),
noTrustStatement);
CodeGroup group2 = new UnionCodeGroup(
new ZoneMembershipCondition(SecurityZone.Trusted),
fullTrustStatement);
group1.AddChild(group2);`
- C. `CodeGroup group = new UnionCodeGroup(
new ZoneMembershipCondition(SecurityZone.Trusted),
fullTrustStatement);`
- D. `CodeGroup group = new FirstMatchCodeGroup(
new AllMembershipCondition(),
noTrustStatement);`

Answer: B

Question: 229

You need to write a code segment that transfers the contents of a byte array named `dataToSend` by using a `NetworkStream` object named `netStream`. You need to use a cache of size 8,192 bytes. Which code segment should you use?

- A. `MemoryStream memStream = new MemoryStream(8192);
memStream.Write(dataToSend, 0, (int) netStream.Length);`
- B. `MemoryStream memStream = new MemoryStream(8192);
netStream.Write(dataToSend, 0, (int) memStream.Length);`
- C. `BufferedStream bufStream = new BufferedStream(netStream, 8192);
bufStream.Write(dataToSend, 0, dataToSend.Length);`
- D. `BufferedStream bufStream = new BufferedStream(netStream);
bufStream.Write(dataToSend, 0, 8192);`

Answer: C

Question: 230

You are developing a utility screen for a new client application. The utility screen displays a thermometer that conveys the current status of processes being carried out by the application. You need to draw a rectangle on the screen to serve as the background of the thermometer as shown in the exhibit. The rectangle must be filled with gradient shading.

Which code segment should you choose?

Exhibit:

- A. `Rectangle rectangle = new Rectangle(10, 10, 450, 25);
LinearGradientBrush rectangleBrush =
new LinearGradientBrush(rectangle, Color.AliceBlue,
Color.CornflowerBlue,
LinearGradientMode.ForwardDiagonal);
Pen rectanglePen = new Pen(rectangleBrush);`

```

Graphics g = this.CreateGraphics();
g.DrawRectangle(rectanglePen, rectangle);
B. Rectangle rectangle = new Rectangle(10, 10, 450, 25);
LinearGradientBrush rectangleBrush =
new LinearGradientBrush(rectangle, Color.AliceBlue,
Color.CornflowerBlue,
LinearGradientMode.ForwardDiagonal);
Pen rectanglePen = new Pen(rectangleBrush);
Graphics g = this.CreateGraphics();
g.FillRectangle(rectangleBrush, rectangle);
C. RectangleF rectangle = new RectangleF(10f, 10f, 450f, 25f);
Point[] points = new Point[] {new Point(0, 0),
new Point(110, 145)};
LinearGradientBrush rectangleBrush =
new LinearGradientBrush(rectangle, Color.AliceBlue,
Color.CornflowerBlue,
LinearGradientMode.ForwardDiagonal);
Pen rectanglePen = new Pen(rectangleBrush);
Graphics g = this.CreateGraphics();
g.DrawPolygon(rectanglePen, points);
D. RectangleF rectangle = new RectangleF(10f, 10f, 450f, 25f);
SolidBrush rectangleBrush =
new SolidBrush(Color.AliceBlue);
Pen rectanglePen = new Pen(rectangleBrush);
Graphics g = this.CreateGraphics();
g.DrawRectangle(rectangleBrush, rectangle);

```

Answer: B

Question: 231

You are developing a method that searches a string for a substring. The method will be localized to Italy. Your method accepts the following parameters: The string to be searched, which is named `searchList` The string for which to search, which is named `searchValue` You need to write the code. Which code segment should you use?

```

A. return searchList.IndexOf(searchValue);
B. CompareInfo comparer =
new CultureInfo("it-IT").CompareInfo;
return comparer.Compare(searchList, searchValue);
C. CultureInfo comparer = new CultureInfo("it-IT");
if (searchList.IndexOf(searchValue)
> 0) {
return true;
} else {
return false;
}
D. CompareInfo comparer =
new CultureInfo("it-IT").CompareInfo;
if (comparer.IndexOf(searchList,
searchValue) > 0) {
return true;
} else {
return false;
}

```

Answer: D

Question: 232

You are developing a method to decrypt data that was encrypted with the Triple DES Algorithm. The method accepts the following parameters: The byte array to be decrypted, which is named cipherMessage The key, which is named key An initialization vector, which is named iv You need to decrypt the message by using the TripleDES class and place the result in a string. Which code segment should you use?

```
A. TripleDES des = new TripleDESCryptoServiceProvider();
des.BlockSize = cipherMessage.Length;
ICryptoTransform crypto = des.CreateDecryptor(key, iv);
MemoryStream cipherStream = new MemoryStream(cipherMessage);
CryptoStream cryptoStream =
new CryptoStream(
cipherStream, crypto, CryptoStreamMode.Read);
string message;
message = new StreamReader(cryptoStream).ReadToEnd();
B. TripleDES des = new TripleDESCryptoServiceProvider();
des.FeedbackSize = cipherMessage.Length;
ICryptoTransform crypto = des.CreateDecryptor(key, iv);
MemoryStream cipherStream = new MemoryStream(cipherMessage);
CryptoStream cryptoStream =
new CryptoStream(
cipherStream, crypto, CryptoStreamMode.Read);
string message;
message = new StreamReader(cryptoStream).ReadToEnd();
C. TripleDES des = new TripleDESCryptoServiceProvider();
ICryptoTransform crypto = des.CreateDecryptor();
MemoryStream cipherStream = new MemoryStream(cipherMessage);
CryptoStream cryptoStream =
new CryptoStream(
cipherStream, crypto, CryptoStreamMode.Read);
string message;
message = new StreamReader(cryptoStream).ReadToEnd();
D. TripleDES des = new TripleDESCryptoServiceProvider();
ICryptoTransform crypto = des.CreateDecryptor(key, iv);
MemoryStream cipherStream = new MemoryStream(cipherMessage);
CryptoStream cryptoStream =
new CryptoStream(
cipherStream, crypto, CryptoStreamMode.Read);
string message;
message = new StreamReader(cryptoStream).ReadToEnd();
```

Answer: D

Question: 233

You create a method that runs by using the credentials of the end user. You need to use Microsoft Windows groups to authorize the user. You must add a code segment that identifies whether a user is in the local group named Clerk. Which code segment should you use?

```
A. WindowsIdentity currentUser = WindowsIdentity.GetCurrent();
foreach (IdentityReference grp in currentUser.Groups) {
NTAccount grpAccount =
((NTAccount)grp.Translate(typeof(NTAccount)));
isAuthorized = grpAccount.Value.Equals(Environment.MachineName + @"\Clerk");
```

```

if (isAuthorized) break;
}
B. WindowsPrincipal currentUser =
(WindowsPrincipal)Thread.CurrentPrincipal;
isAuthorized = currentUser.IsInRole("Clerk");
C. GenericPrincipal currentUser =
(GenericPrincipal) Thread.CurrentPrincipal;
isAuthorized = currentUser.IsInRole("Clerk");
D. WindowsPrincipal currentUser =
(WindowsPrincipal)Thread.CurrentPrincipal;
isAuthorized = currentUser.IsInRole(Environment.MachineName);

```

Answer: B

Question: 234

You are creating an application that lists processes on remote computers. The application requires a method that performs the following tasks: Accept the remote computer name as a string parameter named `strComputer`. Return an `ArrayList` object that contains the names of all processes that are running on that computer. You need to write a code segment that retrieves the name of each process that is running on the remote computer and adds the name to the `ArrayList` object. Which code segment should you use?

```

A. ArrayList al = new ArrayList();
Process[] procs = Process.GetProcessesByName(strComputer);
foreach (Process proc in procs) {
    al.Add(proc);
}
B. ArrayList al = new ArrayList();
Process[] procs = Process.GetProcesses(strComputer);
foreach (Process proc in procs) {
    al.Add(proc);
}
C. ArrayList al = new ArrayList();
Process[] procs = Process.GetProcessesByName(strComputer);
foreach (Process proc in procs) {
    al.Add(proc.ProcessName);
}
D. ArrayList al = new ArrayList();
Process[] procs = Process.GetProcesses(strComputer);
foreach (Process proc in procs) {
    al.Add(proc.ProcessName);
}

```

Answer: D

Question: 235

You need to serialize an object of type `List<int>` in a binary format. The object is named `data`. Which code segment should you use?

```

A. BinaryFormatter formatter = new BinaryFormatter();
MemoryStream stream = new MemoryStream();
formatter.Serialize(stream, data);
B. BinaryFormatter formatter = new BinaryFormatter();
MemoryStream stream = new MemoryStream();
for (int i = 0;
i < data.Count;
i++) {

```

```

formatter.Serialize(stream, data[i]);
}
C. BinaryFormatter formatter = new BinaryFormatter();
byte[] buffer = new byte[data.Count];
MemoryStream stream = new MemoryStream(buffer, true);
formatter.Serialize(stream, data);
D. BinaryFormatter formatter = new BinaryFormatter();
MemoryStream stream = new MemoryStream();
data.ForEach(delegate(int num)
{ formatter.Serialize(stream, num);
});
);

```

Answer: A

Question: 236

You are writing a method to compress an array of bytes. The bytes to be compressed are passed to the method in a parameter named document.

You need to compress the contents of the incoming parameter.

Which code segment should you use?

```

A. MemoryStream inStream = new MemoryStream(document);
GZipStream zipStream = new GZipStream(inStream,
CompressionMode.Compress);
byte[] result = new byte[document.Length];
zipStream.Write(result, 0, result.Length);
return result;
B. MemoryStream stream = new MemoryStream(document);
GZipStream zipStream = new GZipStream(stream,
CompressionMode.Compress);
zipStream.Write(document, 0, document.Length);
zipStream.Close();
return stream.ToArray();
C. MemoryStream outStream = new MemoryStream();
GZipStream zipStream = new GZipStream(outStream,
CompressionMode.Compress);
zipStream.Write(document, 0, document.Length);
zipStream.Close();
return outStream.ToArray();
D. MemoryStream inStream = new MemoryStream(document);
GZipStream zipStream = new GZipStream(inStream,
CompressionMode.Compress);
MemoryStream outStream = new MemoryStream();
int b;
while ((b = zipStream.ReadByte()) != -1) {
outStream.WriteByte((byte)b);
} return outStream.ToArray();

```

Answer: C

Question: 237

You write the following code to call a function from the Win32 Application Programming Interface (API) by using platform invoke.

```
int rc = MessageBox(hWnd, text, caption, type);
```

You need to define a method prototype. Which code segment should you use?

```
A. [DllImport("user32")]public static extern int MessageBox(int hWnd, String text, String caption,
```

```

uint type);
B. [DllImport("user32")]public static extern int MessageBoxA(int hWnd, String text, String
caption, uint type);
C. [DllImport("user32")]public static extern int Win32API_User32_MessageBox( int hWnd, String
text, String caption, uint type);
D. [DllImport(@"C:\WINDOWS\system32\user32.dll")]public static extern int MessageBox(int
hWnd, String text, String caption, uint type);

```

Answer: A

Question: 238

You need to generate a report that lists language codes and region codes.

Which code segment should you use?

```

A. foreach (CultureInfo culture in CultureInfo.GetCultures(CultureTypes.SpecificCultures)) {
// Output the culture information...}

B. CultureInfo culture = new CultureInfo(""); CultureTypes types = culture.CultureTypes; //
Output the culture information...
C. foreach (CultureInfo culture in CultureInfo.GetCultures(CultureTypes.NeutralCultures)) {
// Output the culture information...}
D. foreach (CultureInfo culture in CultureInfo.GetCultures(CultureTypes.ReplacementCultures))
{ // Output the culture information...}

```

Answer: A

Question: 239

You are developing a fiscal report for a customer. Your customer has a main office in the United States and a satellite office in Mexico.

You need to ensure that when users in the satellite office generate the report, the current date is displayed in Mexican Spanish format. Which code segment should you use?

```

A. DateTimeFormatInfo dtfi = new CultureInfo("es-MX", false).DateTimeFormat;
DateTime dt = new DateTime(DateTime.Today.Year, DateTime.Today.Month,
DateTime.Today.Day);
string dateString = dt.ToString(dtfi.LongDatePattern);
B. Calendar cal = new CultureInfo("es-MX", false).Calendar;
DateTime dt = new DateTime(DateTime.Today.Year, DateTime.Today.Month,
DateTime.Today.Day);
Strong dateString = dt.ToString();
C. string dateString = DateTimeFormatInfo.CurrentInfo.MonthName(DateTime.Today.Month);
D. string dateString = DateTime.Today.Month.ToString("es-MX");

```

Answer: A

Question: 240

You are using the Microsoft Visual Studio 2005 IDE to examine the output of a method that returns a string. You assign the output of the method to a string variable named fName. You need to write a code segment that prints the following on a single line

The message: "Test Failed: " The value of fName if the value of fName does not equal "Company" You also need to ensure that the code segment simultaneously facilitates uninterrupted execution of the application.

Which code segment should you use?

```

A. Debug.Assert(fName == "Company", "Test Failed: ", fName);
B. Debug.WriteLineIf(fName != "Company", fName, "Test Failed");
C. if (fName != "Company") {

```

```

Debug.Print("Test Failed: ");
Debug.Print(fName);
}
D. if (fName != "Company") {
Debug.WriteLine("Test Failed: ");
Debug.WriteLine(fName);
}

```

Answer: B

Question: 241

You are developing an application that will use custom authentication and role-based security. You need to write a code segment to make the runtime assign an unauthenticated principal object to each running thread. Which code segment should you use?

```

A. AppDomain domain = AppDomain.CurrentDomain;
domain.SetPrincipalPolicy(PrincipalPolicy.WindowsPrincipal);
B. AppDomain domain = AppDomain.CurrentDomain;
domain.SetThreadPrincipal(new WindowsPrincipal(null));
C. AppDomain domain = AppDomain.CurrentDomain;
domain.SetAppDomainPolicy(
PolicyLevel.CreateAppDomainLevel());
D. AppDomain domain = AppDomain.CurrentDomain;
domain.SetPrincipalPolicy(
PrincipalPolicy.UnauthenticatedPrincipal);

```

Answer: D

Question: 242

You are using the Microsoft Visual Studio 2005 IDE to examine the output of a method that returns a string. You assign the output of the method to a string variable named fName. You need to write a code segment that prints the following on a single line
The message: "Test Failed: " The value of fName if the value of fName does not equal "Company" You also need to ensure that the code segment simultaneously facilitates uninterrupted execution of the application. Which code segment should you use?

```

A. Debug.Assert(fName == "Company", "Test Failed: ", fName);
B. Debug.WriteLineIf(fName != "Company", fName, "Test Failed");
C. if (fName != "Company") {
Debug.Print("Test Failed: ");
Debug.Print(fName);
}
D. if (fName != "Company") {
Debug.WriteLine("Test Failed: ");
Debug.WriteLine(fName);
}

```

Answer: B

Question: 243

You write a class named Employee that includes the following code segment.
public class Employee { string employeeId, employeeName, jobTitleName;

```
public string GetName() { return employeeName; }
public string GetTitle() { return jobTitleName; }
```

You need to expose this class to COM in a type library. The COM interface must also facilitate forward compatibility across new versions of the Employee class. You need to choose a method for generating the COM interface.

What should you do?

A. Add the following attribute to the class

```
definition.[ClassInterface(ClassInterfaceType.None)]public class
Employee {
```

B. Add the following attribute to the class

```
definition.[ClassInterface(ClassInterfaceType.AutoDual)]public class
Employee {
```

C. Add the following attribute to the class definition.[ComVisible(true)]public class Employee {

D. Define an interface for the class and add the following attribute to the class

```
definition.[ClassInterface(ClassInterfaceType.None)]public class Employee : IEmployee {
```

Answer: D

Question: 244

You need to write a multicast delegate that accepts a DateTime argument and returns a Boolean value. Which code segment should you use?

A. public delegate int PowerDeviceOn(bool, DateTime);

B. public delegate bool PowerDeviceOn(Object, EventArgs);

C. public delegate void PowerDeviceOn(DateTime);

D. public delegate bool PowerDeviceOn(DateTime);

Answer: A

Question: 245

You are creating an undo buffer that stores data modifications. You need to ensure that the undo functionality undoes the most recent data modifications first. You also need to ensure that the undo buffer permits the storage of strings only. Which code segment should you use?

A. Stack<string> undoBuffer = new Stack<string>();

B. Stack undoBuffer = new Stack();

C. Queue<string> undoBuffer = new Queue<string>();

D. Queue undoBuffer = new Queue();

Answer: A

Question: 246

You create the definition for a Vehicle class by using the following code segment.

```
public class Vehicle { [XmlAttribute(AttributeName = "category")]
```

```
public string vehicleType;
```

```
public string model;
```

```
[XmlIgnore]
```

```
public int year;
```

```
[XmlElement(ElementName = "mileage")]
```

```
public int miles;
```

```
public ConditionType condition;
```

```
public Vehicle() {
```

```
}
```

```
public enum ConditionType {
```

```

[XmlEnum("Poor")] BelowAverage,
[XmlEnum("Good")] Average,
[XmlEnum("Excellent")] AboveAverage
}
}

```

You create an instance of the Vehicle class. You populate the public fields of the Vehicle class instance as shown in the following table:

Member	Value
vehicleType	car
model	model
year	2002
miles	15000
condition	AboveAverage

MemberValuevehicleTypecarmodelraceryear2002miles15000conditionAboveAverage You need to identify the XML block that is produced when this Vehicle class instance is serialized. Which block of XML represents the output of serializing the Vehicle instance?

- A. `<?xml version="1.0" encoding="utf-8"?>`
`<Vehicle`
`xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"`
`xmlns:xsd="http://www.w3.org/2001/XMLSchema"`
`vehicleType="car">`
`<model>racer</model>`
`<miles>15000</miles>`
`<condition>AboveAverage</condition>`
`</Vehicle>`
- B. `<?xml version="1.0" encoding="utf-8"?>`
`<Vehicle`
`xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"`
`xmlns:xsd="http://www.w3.org/2001/XMLSchema"`
`category="car">`
`<model>racer</model>`
`<mileage>15000</mileage>`
`<condition>Excellent</condition>`
`</Vehicle>`
- C. `<?xml version="1.0" encoding="utf-8"?>`
`<Vehicle`
`xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"`
`xmlns:xsd="http://www.w3.org/2001/XMLSchema"`
`category="car">`
`<model>racer</model>`
`<mileage>15000</mileage>`
`<conditionType>Excellent</conditionType>`
`</Vehicle>`
- D. `<?xml version="1.0" encoding="utf-8"?>`
`<Vehicle`
`xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"`
`xmlns:xsd="http://www.w3.org/2001/XMLSchema"`
`<category>car</category>`
`<model>racer</model>`
`<mileage>15000</mileage>`
`<condition>Excellent</condition>`
`</Vehicle>`

Answer: B

Question: 247

You are writing code for user authentication and authorization. The username, password, and roles are stored in your application data store.

You need to establish a user security context that will be used for authorization checks such as `IsInRole`. You write the following code segment to authorize the user.

```
if (!TestPassword(userName, password))
```

```
throw new Exception("could not authenticate user");
```

```
String[] userRolesArray = LookupUserRoles(userName);
```

You need to complete this code so that it establishes the user security context. Which code segment should you use?

A. `GenericIdentity ident = new GenericIdentity(userName);`

`GenericPrincipal currentUser =`

`new GenericPrincipal(ident, userRolesArray);`

`Thread.CurrentPrincipal = currentUser;`

B. `WindowsIdentity ident = new WindowsIdentity(userName);`

`WindowsPrincipal currentUser = new WindowsPrincipal(ident);`

`Thread.CurrentPrincipal = currentUser;`

C. `NTAccount userNTName = new NTAccount(userName);`

`GenericIdentity ident = new GenericIdentity(userNTName.Value);`

`GenericPrincipal currentUser = new GenericPrincipal(ident, userRolesArray);`

`Thread.CurrentPrincipal = currentUser;`

D. `IntPtr token = IntPtr.Zero;`

`token = LogonUserUsingInterop(userName, encryptedPassword);`

`WindowsImpersonationContext ctx =`

`WindowsIdentity.Impersonate(token);`

Answer: A

Question: 248

You are testing a component that serializes the `Meeting` class instances so that they can be saved to the file system. The `Meeting` class has the following definition:

```
public class Meeting { private string title;
```

```
public int roomNumber;
```

```
public string[] invitees;
```

```
public Meeting(){
```

```
}
```

```
public Meeting(string t){
```

```
title = t;
```

```
}}
```

The component contains a procedure with the following code segment.

```
Meeting myMeeting = new Meeting("Goals");
```

```
myMeeting.roomNumber=1100;
```

```
string[] attendees = new string[2]{"Company", "Mary"};
```

```
myMeeting.invitees = attendees;
```

```
XmlSerializer xs = new XmlSerializer(typeof(Meeting));
```

```
StreamWriter writer = new StreamWriter(@"C:\Meeting.xml");
```

```
xs.Serialize(writer, myMeeting);
```

```
writer.Close();
```

You need to identify the XML block that is written to the `C:\Meeting.xml` file as a result of running this procedure. Which XML block represents the content that will be written to the `C:\Meeting.xml` file?

A. `<?xml version="1.0" encoding="utf-8"?>`

`<Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"`

`xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">`

```

<title>Goals</title>
<roomNumber>1100</roomNumber>
<invitee>Company</invitee>
<invitee>Mary</invitee>
</Meeting>
B. <?xml version="1.0" encoding="utf-8"?>
<Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<roomNumber>1100</roomNumber>
<invitees>
<string>Company</string>
<string>Mary</string>
</invitees>
</Meeting>
C. <?xml version="1.0" encoding="utf-8"?>
<Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
title="Goals">
<roomNumber>1100</roomNumber>
<invitees>
<string>Company</string>
<string>Mary</string>
</invitees>
</Meeting>
D. <?xml version="1.0" encoding="utf-8"?>
<Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<roomNumber>1100</roomNumber>
<invitees>
<string>Company</string>
</invitees>
<invitees>
<string>Mary</string>
</invitees>
</Meeting>

```

Answer: B

Question: 249

You are changing the security settings of a file named MyData.xml.

You need to preserve the existing inherited access rules. You also need to prevent the access rules from inheriting changes in the future.

Which code segment should you use?

```

A. FileSecurity security = new FileSecurity("mydata.xml", AccessControlSections.All);
security.SetAccessRuleProtection(true, true);
File.SetAccessControl("mydata.xml", security);
B. FileSecurity security = new FileSecurity();
security.SetAccessRuleProtection(true, true);
File.SetAccessControl("mydata.xml", security);
C. FileSecurity security = File.GetAccessControl("mydata.xml");
security.SetAccessRuleProtection(true, true);
D. FileSecurity security = File.GetAccessControl("mydata.xml");
security.SetAuditRuleProtection(true, true);
File.SetAccessControl("mydata.xml", security);

```

Answer: A

Question: 250

You are testing a newly developed method named PersistToDB. This method accepts a parameter of type EventLogEntry. This method does not return a value. You need to create a code segment that helps you to test the method. The code segment must read entries from the application log of local computers and then pass the entries on to the PersistToDB method. The code block must pass only events of type Error or Warning from the source MySource to the PersistToDB method. Which code segment should you use?

```
A. EventLog myLog = new EventLog("Application", ".");
foreach (EventLogEntry entry in myLog.Entries) {
    if (entry.Source == "MySource") {
        PersistToDB(entry);
    }
}

B. EventLog myLog = new EventLog("Application", ".");
myLog.Source = "MySource";
foreach (EventLogEntry entry in myLog.Entries) {
    if (entry.EntryType == (EventLogEntryType.Error &
        EventLogEntryType.Warning)) {
        PersistToDB(entry);
    }
}

C. EventLog myLog = new EventLog("Application", ".");
foreach (EventLogEntry entry in myLog.Entries) {
    if (entry.Source == "MySource") {
        if (entry.EntryType == EventLogEntryType.Error ||
            entry.EntryType == EventLogEntryType.Warning) {
            PersistToDB(entry);
        }
    }
}

D. EventLog myLog = new EventLog("Application", ".");
myLog.Source = "MySource";
foreach (EventLogEntry entry in myLog.Entries) {
    if (entry.EntryType == EventLogEntryType.Error ||
        entry.EntryType == EventLogEntryType.Warning) {
        PersistToDB(entry);
    }
}
```

Answer: C

Question: 251

You need to generate a report that lists language codes and region codes. Which code segment should you use?

```
A. foreach (CultureInfo culture in CultureInfo.GetCultures(CultureTypes.SpecificCultures)) {
    // Output the culture information...}
B. CultureInfo culture = new CultureInfo("");
CultureTypes types = culture.CultureTypes;
// Output the culture information...
C. foreach (CultureInfo culture in CultureInfo.GetCultures(CultureTypes.NeutralCultures)) {
    // Output the culture information...}
D. foreach (CultureInfo culture in CultureInfo.GetCultures(CultureTypes.ReplacementCultures))
{ // Output the culture information...}
```

Answer: A

Question: 252

You need to write a code segment that will create a common language runtime (CLR) unit of isolation within an application. Which code segment should you use?

- A. AppDomainSetup mySetup = AppDomain.CurrentDomain.SetupInformation;
mySetup.ShadowCopyFiles = "true";
- B. System.Diagnostics.Process myProcess;
myProcess = new System.Diagnostics.Process();
- C. AppDomain domain;
domain = AppDomain.CreateDomain("CompanyDomain");
- D. System.ComponentModel.Component myComponent;
myComponent = new System.ComponentModel.Component();

Answer: C

Question: 253

You need to create a method to clear a Queue named q. Which code segment should you use?

- A. foreach (object e in q) {
q.Dequeue();
}
- B. foreach (object e in q) {
Enqueue(null);
}
- C. q.Clear();
- D. q.Dequeue();

Answer: C

Question: 254

You are writing code for user authentication and authorization. The username, password, and roles are stored in your application data store.

You need to establish a user security context that will be used for authorization checks such as IsInRole. You write the following code segment to authorize the user.

```
if (!TestPassword(userName, password))  
throw new Exception("could not authenticate user");  
String[] userRolesArray = LookupUserRoles(userName);  
You need to complete this code so that it establishes the user security context. Which code  
segment should you use?
```

- A. GenericIdentity ident = new GenericIdentity(userName);
GenericPrincipal currentUser =
new GenericPrincipal(ident, userRolesArray);
Thread.CurrentPrincipal = currentUser;
- B. WindowsIdentity ident = new WindowsIdentity(userName);
WindowsPrincipal currentUser = new WindowsPrincipal(ident);
Thread.CurrentPrincipal = currentUser;
- C. NTAccount userNTName = new NTAccount(userName);
GenericIdentity ident = new GenericIdentity(userNTName.Value);
GenericPrincipal currentUser = new GenericPrincipal(ident, userRolesArray);
Thread.CurrentPrincipal = currentUser;
- D. IntPtr token = IntPtr.Zero;
token = LogonUserUsingInterop(userName, encryptedPassword);
WindowsImpersonationContext ctx =
WindowsIdentity.Impersonate(token);

Answer: A

Question: 255

You write the following code to implement the CompanyClass.

```
MyMethod function. public class CompanyClass { public int MyMethod(int arg) {
return arg; }}
```

You need to call the CompanyClass.MyMethod function dynamically from an unrelated class in your assembly. Which code segment should you use?

- A. CompanyClass myClass = new CompanyClass();
Type t = typeof(CompanyClass);
MethodInfo m = t.GetMethod("MyMethod");
int i = (int)m.Invoke(this, new object[] { 1 });
- B. CompanyClass myClass = new CompanyClass();
Type t = typeof(CompanyClass);
MethodInfo m = t.GetMethod("MyMethod");
int i = (int) m.Invoke(myClass, new object[] { 1 });
- C. CompanyClass myClass = new CompanyClass();
Type t = typeof(CompanyClass);
MethodInfo m = t.GetMethod("CompanyClass.MyMethod");
int i = (int)m.Invoke(myClass, new object[] { 1 });
- D. Type t = Type.GetType("CompanyClass");
MethodInfo m = t.GetMethod("MyMethod");
int i = (int)m.Invoke(this, new object[] { 1 });

Answer: B

Question: 256

You are testing a method that examines a running process. This method returns an ArrayList containing the name and full path of all modules that are loaded by the process. You need to list the modules loaded by a process named C:\TestApps\Process1.exe. Which code segment should you use?

- A. ArrayList ar = new ArrayList();
Process[] procs;
ProcessModuleCollection modules;
procs = Process.GetProcesses(@"Process1");
if (procs.Length > 0) {modules = procs[0].Modules;
foreach (ProcessModule mod in modules) {
ar.Add(mod.ModuleName);
}}}
- B. ArrayList ar = new ArrayList();
Process[] procs;
ProcessModuleCollection modules;
procs =
Process.GetProcesses(@"C:\TestApps\Process1.exe");
if (procs.Length > 0) {
modules = procs[0].Modules;
foreach (ProcessModule mod in modules) {
ar.Add(mod.ModuleName);
}}}
- C. ArrayList ar = new ArrayList();
Process[] procs;
ProcessModuleCollection modules;
procs = Process.GetProcessesByName(@"Process1");
if (procs.Length > 0) {
modules = procs[0].Modules;

```

foreach (ProcessModule mod in modules) {
ar.Add(mod.FileName);
}}
D. ArrayList ar = new ArrayList();
Process[] procs;
ProcessModuleCollection modules;
procs = Process.GetProcessesByName(@"C:\TestApps\Process1.exe");
if (procs.Length > 0) {
modules = procs[0].Modules;
foreach (ProcessModule mod in modules) {
ar.Add(mod.FileName);
}}

```

Answer: C

Question: 257

You need to write a multicast delegate that accepts a DateTime argument. Which code segment should you use?

- A. public delegate int PowerDeviceOn(bool result, DateTime autoPowerOff);
- B. public delegate bool PowerDeviceOn(object sender, EventArgs autoPowerOff);
- C. public delegate void PowerDeviceOn(DateTime autoPowerOff);
- D. public delegate bool PowerDeviceOn(DateTime autoPowerOff);

Answer: C

Question: 258

You are developing a fiscal report for a customer. Your customer has a main office in the United States and a satellite office in Mexico.

You need to ensure that when users in the satellite office generate the report, the current date is displayed in Mexican Spanish format. Which code segment should you use?

- A. DateTimeFormatInfo dtfi = new CultureInfo("es-MX", false).DateTimeFormat; DateTime dt = new DateTime(DateTime.Today.Year, DateTime.Today.Month, DateTime.Today.Day); string dateString = dt.ToString(dtfi.LongDatePattern);
- B. Calendar cal = new CultureInfo("es-MX", false).Calendar; DateTime dt = new DateTime(DateTime.Today.Year, DateTime.Today.Month, DateTime.Today.Day); Strong dateString = dt.ToString();
- C. string dateString = DateTimeFormatInfo.CurrentInfo.GetMonthName(DateTime.Today.Month);
- D. string dateString = DateTime.Today.Month.ToString("es-MX");

Answer: A

Question: 259

You are writing a method that returns an ArrayList named al. You need to ensure that changes to the ArrayList are performed in a thread-safe manner. Which code segment should you use?

- A. ArrayList al = new ArrayList();
lock (al.SyncRoot){
return al;
}
- B. ArrayList al = new ArrayList();
lock (al.SyncRoot.GetType()){
return al;
}

```

C. ArrayList al = new ArrayList();
Monitor.Enter(al);
Monitor.Exit(al);
return al;
D. ArrayList al = new ArrayList();
ArrayList sync_al = ArrayList.Synchronized(al);
return sync_al;

```

Answer: D

Question: 260

You are using the Microsoft Visual Studio 2005 IDE to examine the output of a method that returns a string. You assign the output of the method to a string variable named fName. You need to write a code segment that prints the following on a single line
The message: "Test Failed: " The value of fName if the value of fName does not equal "Company" You also need to ensure that the code segment simultaneously facilitates uninterrupted execution of the application.
Which code segment should you use?

```

A. Debug.Assert(fName == "Company", "Test Failed: ", fName);
B. Debug.WriteLineIf(fName != "Company", fName, "Test Failed");
C. if (fName != "Company") {
    Debug.Print("Test Failed: ");
    Debug.Print(fName);
}
D. if (fName != "Company") {
    Debug.WriteLine("Test Failed: ");
    Debug.WriteLine(fName);
}

```

Answer: B

Question: 261

You create an application that stores information about your customers who reside in various regions. You are developing internal utilities for this application.
You need to gather regional information about your customers in Canada.
Which code segment should you use?

```

A. foreach (CultureInfo culture in CultureInfo.GetCultures(CultureTypes.SpecificCultures)) { //
    Output the region information...}
B. CultureInfo cultureInfo = new CultureInfo("CA");
// Output the region information...
C. RegionInfo regionInfo = new RegionInfo("CA");
// Output the region information...
D. D.RegionInfo regionInfo = new RegionInfo("");
if (regionInfo.Name == "CA") {
// Output the region information...}

```

Answer: C

Question: 262

You are developing an application to assist the user in conducting electronic surveys. The survey consists of 25 true-or-false questions. You need to perform the following tasks: Initialize each answer to true.Minimize the amount of memory used by each survey. Which storage option should you choose?

```

A. BitVector32 answers = new BitVector32(1);

```

- B. BitVector32 answers = new BitVector32(-1);
- C. BitArray answers = new BitArray (1);
- D. BitArray answers = new BitArray(-1);

Answer: B

Question: 263

You need to read the entire contents of a file named Message.txt into a single string variable. Which code segment should you use?

- A. string result = null;
StreamReader reader = new StreamReader("Message.txt");
result = reader.Read().ToString();
- B. string result = null;
StreamReader reader = new StreamReader("Message.txt");
result = reader.ReadToEnd();
- C. string result = string.Empty;
StreamReader reader = new StreamReader("Message.txt");
while (!reader.EndOfStream) {
result += reader.ToString();
}
- D. string result = null;
StreamReader reader = new StreamReader("Message.txt");
result = reader.ReadLine();

Answer: B

Question: 264

You are writing a custom dictionary. The custom-dictionary class is named MyDictionary. You need to ensure that the dictionary is type safe. Which code segment should you use?

- A. Class MyDictionaryImplements Dictionary(Of String, String)
- B. Class MyDictionary Inherits HashTable
- C. Class MyDictionary Implements IDictionary
- D. Class MyDictionary
End Class
Dim t As New Dictionary(Of String, String)
Dim dict As MyDictionary = CType(t, MyDictionary)

Answer: A

Question: 265

You write a class named Employee that includes the following code segment.

```
Private m_EmployeeId As String
Private m_EmployeeName As String
Private m_JobTitleName As String
Public Function GetName() As String
Return m_EmployeeName
End Function
Public Function GetTitle() As String
Return m_JobTitleName
End Function
End Class
```

You need to expose this class to COM in a type library. The COM interface must also facilitate forwardcompatibility across new versions of the Employee class. You need to choose a method

for generating the COM interface.
What should you do?

- A. Add the following attribute to the class definition.<ClassInterface(ClassInterfaceType.None)> _Public Class Employee
- B. Add the following attribute to the class definition.<ClassInterface(ClassInterfaceType.AutoDual)> _ Public Class Employee
- C. Add the following attribute to the class definition.<ComVisible(True)> _ Public Class Employee
- D. Define an interface for the class and add the following attribute to the class definition.<ClassInterface(ClassInterfaceType.None)> _ Public Class EmployeeImplements IEmployee

Answer: D

Question: 266

You need to serialize an object of type List(Of Integer) in a binary format. The object is named data. Which code segment should you use?

- A. Dim formatter As New BinaryFormatter() Dim ms As New MemoryStream()formatter.Serialize(ms, data)
- B. Dim formatter As New BinaryFormatter() Dim ms As New MemoryStream() For i As Integer = 1 To 20 formatter.Serialize(ms, data(i - 1)) Next
- C. Dim formatter As New BinaryFormatter() Dim buffer As New Byte(data.Count) {} Dim ms As New MemoryStream(buffer, True)formatter.Serialize(ms, data)
- D. Dim formatter As New BinaryFormatter() Dim ms As New MemoryStream()While ms.CanRead formatter.Serialize(ms, data) End While

Answer: A

Question: 267

You are developing an application for a client residing in Hong Kong. You need to display negative currency values by using a minus sign. Which code segment should you use?

- A. Dim objCulture As NumberFormatInfo = _ New CultureInfo("zh-HK").NumberFormatobjCulture.NumberNegativePattern = 1 Return NumberToPrint.ToString("C", objCulture)
- B. Dim objCulture As NumberFormatInfo = _ New CultureInfo("zh-HK").NumberFormatobjCulture.CurrencyNegativePattern = 1 Return NumberToPrint.ToString("C", objCulture)
- C. Dim objCulture As NumberFormatInfo = _ New CultureInfo("zh-HK").NumberFormatReturn NumberToPrint.ToString("-{0}", objCulture)
- D. Dim objCulture As NumberFormatInfo = _ New CultureInfo("zh-HK").NumberFormatReturn NumberToPrint.ToString("()", objCulture)

Answer: B

Question: 268

You are developing a method to hash data with the Secure Hash Algorithm. The data is passed to your method as a byte array named message. You need to compute the hash of the incoming parameter by using SHA1. You also need to place the result into a byte array named hash. Which code segment should you use?

A. Dim objSHA As New SHA1CryptoServiceProvider Dim hash() As Byte = NothingobjSHA.TransformBlock(message, 0, message.Length, hash, 0)
 B. Dim objSHA As New SHA1CryptoServiceProvider Dim hash() As Byte = BitConverter.GetBytes(objSHA.GetHashCode)
 C. Dim objSHA As New SHA1CryptoServiceProvider Dim hash() As Byte = objSHA.ComputeHash(message)
 D. Dim objSHA As New SHA1CryptoServiceProviderobjSHA.GetHashCode() Dim hash() As Byte = objSHA.Hash

Answer: C

Question: 269

You write the following code.

```
Public Delegate Sub FaxDocs(ByVal sender As Object, _
ByVal args as FaxArgs)
```

You need to create an event that will invoke FaxDocs. Which code segment should you use?

A. Public Shared Event Fax As FaxDocs
 B. Public Shared Event FaxDocs As FaxArgs
 C. Public Class FaxArgs
 Inherits EventArgs
 Private coverPageInfo As String
 Public Sub New(ByVal coverInfo As String)
 Me.coverPageInfo = coverInfo
 End Sub
 Public ReadOnly Property CoverPageInformation As String
 Get
 Return Me.coverPageInfo
 End Get
 End Property
 End Class
 D. Public Class FaxArgs
 Inherits EventArgs
 Private coverPageInfo As String
 Public ReadOnly Property CoverPageInformation As String
 Get
 Return Me.coverPageInfo
 End Get
 End Property
 End Class

Answer: A

Question: 270

You need to write a code segment that will create a common language runtime (CLR) unit of isolation within an application. Which code segment should you use?

A. Dim mySetup As AppDomainSetup = _
 AppDomain.CurrentDomain.SetupInformationmySetup.ShadowCopyFiles = "true"
 B. Dim myProcess As System.Diagnostics.Process myProcess = New
 System.Diagnostics.Process()
 C. Dim domain As AppDomain domain = AppDomain.CreateDomain("CompanyDomain")
 D. Dim myComponent As System.ComponentModel.ComponentmyComponent = New
 System.ComponentModel.Component()

Answer: C

Question: 271

You are developing a custom-collection class.

You need to create a method in your class. You need to ensure that the method you create in your class returns a type that is compatible with the Foreach statement. Which criterion should the method meet?

- A. The method must return a type of either IEnumerator or IEnumerable.
- B. The method must return a type of IComparable.
- C. The method must explicitly contain a collection.
- D. The method must be the only iterator in the class.

Answer: A

Question: 272

You are developing a custom event handler to automatically print all open documents. The event handler helps specify the number of copies to be printed. You need to develop a custom event arguments class to pass as a parameter to the event handler.

Which code segment should you use?

- A. Public Class PrintingArgs
Private _copies As Integer
Public Sub New(ByVal numberOfCopies As Integer)
Me._copies = numberOfCopies
End Sub
Public ReadOnly Property Copies() As Integer
Get
Return Me._copies
End Get
End Property
End Class
- B. Public Class PrintingArgs
Inherits EventArgs
Private _copies As Integer
Public Sub New(ByVal numberOfCopies As Integer)
Me._copies = numberOfCopies
End Sub
Public ReadOnly Property Copies() As Integer
Get
Return Me._copies
End Get
End Property
End Class
- C. Public Class PrintingArgs
Private EventArgs As EventArgs
Public Sub New(ByVal args As EventArgs)
Me.EventArgs = args
End Sub
Public ReadOnly Property Args() As EventArgs
Get
Return EventArgs
End Get
End Property
End Class
- D. Public Class PrintingArgs
Inherits EventArgs
Private copies As Integer
End Class

Answer: B

Question: 273

You are developing an application that dynamically loads assemblies from an application directory.

You need to write a code segment that loads an assembly named Company1.dll into the current application domain. Which code segment should you use?

- A. Dim domain As AppDomain = AppDomain.CurrentDomain
Dim myPath As String = _ Path.Combine(domain.BaseDirectory, "Company1.dll")
Dim asm As [Assembly] = [Assembly].LoadFrom(myPath)
- B. Dim domain As AppDomain = AppDomain.CurrentDomain
Dim myPath As String = _ Path.Combine(domain.BaseDirectory, "Company1.dll")
Dim asm As [Assembly] = [Assembly].Load(myPath)
- C. Dim domain As AppDomain = AppDomain.CurrentDomain
Dim myPath As String = _ Path.Combine(domain.DynamicDirectory, "Company1.dll")
Dim asm As [Assembly] = _ AppDomain.CurrentDomain.Load(myPath)
- D. Dim domain As AppDomain = AppDomain.CurrentDomain
Dim asm As [Assembly] = domain.GetData("Company1.dll")

Answer: A

Question: 274

You need to read the entire contents of a file named Message.txt into a single string variable. Which code segment should you use?

- A. Dim result As String = Nothing
Dim reader As New StreamReader("Message.txt")result = reader.Read().ToString()
- B. Dim result As String = Nothing
Dim reader as New StreamReader("Message.txt")result = reader.ReadToEnd()
- C. Dim result As String = string.EmptyDim reader As New StreamReader("Message.txt")
While Not reader.EndOfStream result &= reader.ToString()
End While
- D. Dim result as String = Nothing
Dim reader As New StreamReader("Message.txt")result = reader.ReadLine()

Answer: B

Question: 275

You need to write a code segment that performs the following tasks: ?

Retrieves the name of each paused service. ?

Passes the name to the Add method of Collection1. Which code segment should you use?

- A. Dim searcher As ManagementObjectSearcher = _New ManagementObjectSearcher(_
"Select * from Win32_Service where State = 'Paused'")For Each svc As ManagementObject
In searcher.Get() Collection1.Add(svc("DisplayName")) Next
- B. Dim searcher As ManagementObjectSearcher = _New ManagementObjectSearcher (_
"Select * from Win32_Service", "State = 'Paused'")For Each svc As ManagementObject In
searcher.Get() Collection1.Add(svc("DisplayName")) Next
- C. Dim searcher As ManagementObjectSearcher = _ New ManagementObjectSearcher(_
"Select * from Win32_Service")For Each svc As ManagementObject In searcher.Get() If
svc("State").ToString() = "Paused" Then Collection1.Add(svc("DisplayName")) End If Next
- D. Dim searcher As New ManagementObjectSearcher()searcher.Scope = New
ManagementScope("Win32_Service")For Each svc As ManagementObject In searcher.Get()
If svc("State").ToString() = "Paused" Then Collection1.Add(svc("DisplayName")) End If Next

Answer: A

Question: 276

You are writing a method that accepts a string parameter named message. Your method must break the message parameter into individual lines of text and pass each line to a second method named Process.

Which code segment should you use?

```
A. Dim reader As New
StringReader(message)ProcessMessage(reader.ReadToEnd())reader.Close()
B. Dim reader As New StringReader(message)While reader.Peek() <> -1
Dim line as String = reader.Read().ToString()
ProcessMessage(line)
End Whilereader.Close()
C. Dim reader As New
StringReader(message)ProcessMessage(reader.ToString())reader.Close()
D. Dim reader As New StringReader(message)While reader.Peek() <> -1
ProcessMessage(reader.ReadLine())
End Whilereader.Close()
```

Answer: D

Question: 277

You create a method that runs by using the credentials of the end user. You need to use Microsoft Windows groups to authorize the user. You must add a code segment that identifies whether a user is in the local group named Clerk.

Which code segment should you use?

```
A. Dim objUser As WindowsIdentity = WindowsIdentity.GetCurrentFor Each objGroup As
IdentityReference
In objUser.Groups
Dim objNT As NTAccount = _
DirectCast(objGroup.Translate( _
Type.GetType("NTAccount")), NTAccount)
Dim blnAuth As Boolean = objNT.Value.Equals( _
Environment.MachineName & "\Clerk")
If blnAuth Then Exit For
Next
B. Dim objUser As WindowsPrincipal = _
DirectCast(Thread.CurrentPrincipal, WindowsPrincipal)
Dim blnAuth As Boolean = objUser.IsInRole("Clerk")
C. Dim objUser As GenericPrincipal = _
DirectCast(Thread.CurrentPrincipal, GenericPrincipal)
Dim blnAuth As Boolean = objUser.IsInRole("Clerk")
D. Dim objUser As WindowsPrincipal = _
DirectCast(Thread.CurrentPrincipal, WindowsPrincipal)
Dim blnAuth As Boolean = _
objUser.IsInRole(Environment.MachineName)
```

Answer: B

Question: 278

You are developing a method to hash data for later verification by using the MD5 algorithm. The data is passed to your method as a byte array named message. You need to compute the hash of the incoming parameter by using MD5. You also need to place the result into a byte array.

Which code segment should you use?

- A. Dim objAlgo As HashAlgorithm = HashAlgorithm.Create("MD5")
Dim hash() As Byte = objAlgo.ComputeHash(message)
- B. Dim objAlgo As HashAlgorithm = HashAlgorithm.Create("MD5")
Dim hash() As Byte = BitConverter.GetBytes(objAlgo.GetHashCode)
- C. Dim objAlgo As HashAlgorithmobjAlgo = HashAlgorithm.Create(message.ToString)
Dim hash() As Byte = objAlgo.Hash
- D. Dim objAlgo As HashAlgorithm = HashAlgorithm.Create("MD5")
Dim hash() As ByteobjAlgo.TransformBlock(message, 0, message.Length, hash, 0)

Answer: A

Question: 279

You are developing a fiscal report for a customer. Your customer has a main office in the United States and a satellite office in Mexico.

You need to ensure that when users in the satellite office generate the report, the current date is displayed in Mexican Spanish format. Which code segment should you use?

- A. Dim DTFormat As DateTimeFormatInfo = _
New CultureInfo("es-MX", False).DateTimeFormatDim DT As New DateTime(_
DateTime.Today.Year, DateTime.Today.Month, DateTime.Today.Day)
Dim strDate As String = _
DT.ToString(DTFormat.LongDatePattern)
- B. Dim objCalendar As Calendar = _
New CultureInfo("es-MX", False).CalendarDim DT As New DateTime(_
DateTime.Today.Year, DateTime.Today.Month, DateTime.Today.Day)
Dim strDate As String = DT.ToString
- C. Dim strDate As String = _
DateTimeFormatInfo.CurrentInfo.GetMonthName(_
DateTime.Today.Month)
- D. Dim strDate As String = _
DateTime.Today.Month.ToString("es-MX")

Answer: A

Question: 280

You are developing an application that will use custom authentication and role-based security.

You need to write a code segment to make the runtime assign an unauthenticated principal object to each running thread.

Which code segment should you use?

- A. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetPrincipalPolicy(_
PrincipalPolicy.WindowsPrincipal)
- B. Dim objDomain As AppDomain =
AppDomain.CurrentDomainobjDomain.SetThreadPrincipal(New
WindowsPrincipal(Nothing))
- C. Dim objDomain As AppDomain =
AppDomain.CurrentDomainobjDomain.SetAppDomainPolicy(_
PolicyLevel.CreateAppDomainLevel())
- D. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetPrincipalPolicy(_
PrincipalPolicy.UnauthenticatedPrincipal)

Answer: D

Question: 281

You need to create a method to clear a Queue named q. Which code segment should you use?

- A. Dim e As ObjectFor Each e In qq.Dequeue()
Next
- B. Dim e As ObjectFor Each e In qq.Enqueue(Nothing)
Next
- C. q.Clear()
- D. q.Dequeue()

Answer: C

Question: 282

You are developing a class library that will open the network socket connections to computers on the network.

You will deploy the class library to the global assembly cache and grant it full trust. You write the following code to ensure usage of the socket connections.

```
Dim objPermission As SocketPermission = New
_SocketPermission(System.Security.Permissions.PermissionState.Unrestricted)objPermission.Assert()
```

Some of the applications that use the class library might not have the necessary permissions to open the network socket connections.

You need to cancel the assertion.

Which code segment should you use?

- A. CodeAccessPermission.RevertAssert()
- B. CodeAccessPermission.RevertDeny()
- C. objPermission.Deny()
- D. objPermission.PermitOnly()

Answer: A

Question: 283

You are writing an application that uses SOAP to exchange data with other applications. You use a Department class that inherits from ArrayList to send objects to another application. The Department object is named dept. You need to ensure that the application serializes the Department object for transport by using SOAP. Which code should you use?

- A. Dim formatter As New SoapFormatter()
Dim buffer As Byte() = New Byte(dept.Capacity) {}
Dim myStream As New MemoryStream(buffer) Dim o As ObjectFor Each o In dept
formatter.Serialize(myStream, o)
Next
- B. Dim formatter As New SoapFormatter()
Dim buffer As Byte() = New Byte(dept.Capacity)
Dim myStream As New MemoryStream(buffer)formatter.Serialize(myStream, dept)
- C. Dim formatter As New SoapFormatter()
Dim myStream As New MemoryStream()
Dim o as ObjectFor Each o In dept
formatter.Serialize(myStream, o)
Next
- D. Dim formatter As New SoapFormatter()
Dim myStream As New MemoryStream()formatter.Serialize(myStream, dept)

Answer: D

Question: 284

You write the following code to call a function from the Win32 Application Programming Interface

(API) by using platform invoke.

```
Dim r As Integer = MessageBox(hWnd, strText, strCaption, strType)
```

You need to define a method prototype. Which code segment should you use?

```
<DllImport("user32")> _Function MessageBox( _ ByVal hWnd As IntPtr, ByVal text As String, _  
ByVal Caption As String, ByVal t As UInt32) As IntegerEnd Function  
<DllImport("user32")> _Function MessageBoxA( _ ByVal hWnd As IntPtr, ByVal text As String, _  
ByVal Caption As String, ByVal t As UInt32) As IntegerEnd Function  
<DllImport("user32")> _Function Win32API_User32_MessageBox ( _  
ByVal hWnd As IntPtr, ByVal text As String, _  
ByVal Caption As String, ByVal t As UInt32) As IntegerEnd Function  
<DllImport("C:\WINDOWS\system32\user32.dll")> _Function MessageBox( _  
ByVal hWnd As IntPtr, ByVal text As String, _  
ByVal Caption As String, ByVal t As UInt32) As IntegerEnd Function
```

Answer: A

Question: 285

You are changing the security settings of a file named MyData.xml.

You need to preserve the existing inherited access rules. You also need to prevent the access rules from inheriting changes in the future.

Which code segment should you use?

```
A. Dim objSecurity As New FileSecurity( _ "MyData.xml",  
AccessControlSections.All)objSecurity.SetAccessRuleProtection(True, True)  
File.SetAccessControl("MyData.xml", objSecurity)  
B. Dim objSecurity As New FileSecurity()objSecurity.SetAccessRuleProtection(True, True)  
File.SetAccessControl("MyData.xml", objSecurity)  
C. Dim objSecurity As FileSecurity =  
_File.GetAccessControl("MyData.xml")objSecurity.SetAccessRuleProtection(True, True)  
D. Dim objSecurity As FileSecurity =_  
File.GetAccessControl("MyData.xml")objSecurity.SetAuditRuleProtection(True, True)  
File.SetAccessControl("myData.xml", objSecurity)
```

Answer: A

Question: 286

You are using the Microsoft Visual Studio 2005 IDE to examine the output of a method that returns a string. You assign the output of the method to a string variable named fName. You need to write a code segment that prints the following on a single line: The message: "Test Failed: " The value of fName if the value of fName does not equal "Company" You also need to ensure that the code segment simultaneously facilitates uninterrupted execution of the application.

Which code segment should you use?

```
Debug.Assert(fName = "Company", "Test Failed: ", fName)  
Debug.WriteLineIf(fName <> "Company", _ fName, "Test Failed")  
If fName <> "Company" Then  
Debug.Print("Test Failed: ")  
Debug.Print(fName)  
End If  
If fName <> "Company" Then  
Debug.WriteLine("Test Failed: ")  
Debug.WriteLine(fName)  
End If
```

Answer: B

Question: 287

You create an application that stores information about your customers who reside in various regions. You are developing internal utilities for this application.

You need to gather regional information about your customers in Canada.

Which code segment should you use?

- A. For Each objCulture As CultureInfo In
CultureInfo.GetCultures(CultureTypes.SpecificCultures)
...Next
- B. Dim objCulture As New CultureInfo("CA") ...
- C. Dim objRegion As New RegionInfo("CA") ...
- D. Dim objRegion As New RegionInfo("") If objRegion.Name = "CA" Then
...End If

Answer: C

Question: 288

You create an application to send a message by e-mail. An SMTP server is available on the local subnet. The SMTP server is named smtp.Company.com.

To test the application, you use a source address, me@Company.com, and a target address, you@Company.com.

You need to transmit the e-mail message. Which code segment should you use?

```
Dim MailFrom As New MailAddress("me@Company.com", "Me")
Dim MailTo As New MailAddress("you@Company.com", "You")
Dim Message As New MailMessage(MailFrom, MailTo) Message.Subject =
"Greetings" Message.Body =
"Test" Message.Dispose()
Dim SMTPClient As String = "smtp.Company.com"
Dim MailFrom As String = me@Company.com
Dim MailTo As String = you@Company.com
Dim Subject As String = "Greetings"
Dim Body As String = "Test" Dim Message As New MailMessage(MailFrom, MailTo, Subject,
SMTPClient)
Dim MailFrom As New MailAddress("me@Company.com", "Me")
Dim MailTo As New MailAddress("you@Company.com", "You")
Dim Message As New MailMessage(MailFrom, MailTo) Message.Subject =
"Greetings" Message.Body = "Test"
Dim objClient As New SmtplibClient("smtp.Company.com") objClient.Send(Message)
Dim MailFrom As New MailAddress("me@Company.com", "Me")
Dim MailTo As New MailAddress("you@Company.com", "You")
Dim Message As New MailMessage(MailFrom, MailTo) Message.Subject =
"Greetings" Message.Body = "Test"
Dim Info As New SocketInformation Dim Client As New Socket(Info)
Dim Enc As New ASCIIEncoding Dim Bytes() As Byte =
Enc.GetBytes(Message.ToString) Client.Send(Bytes)
```

Answer: C

Question: 289

You are developing a fiscal report for Company.com. Company.com has a main office in the United States and a satellite office in the UK.

You need to ensure that when users in the satellite office generate the report, the current date is displayed in Mexican Spanish format. Which code segment should you use?

- A. Dim DTFormat As DateTimeFormatInfo = _
New CultureInfo("es-MX", False).DateTimeFormat Dim DT As New DateTime(_

```

DateTime.Today.Year, DateTime.Today.Month, DateTime.Today.Day)
Dim strDate As String = _
DT.ToString(DTFormat.LongDatePattern)
B. Dim objCalendar As Calendar = _
New CultureInfo("es-MX", False).CalendarDim DT As New DateTime( _
DateTime.Today.Year, DateTime.Today.Month, DateTime.Today.Day)
Dim strDate As String = DT.ToString
C. Dim strDate As String = _
DateTimeFormatInfo.CurrentInfo.GetMonthName( _
DateTime.Today.Month)
D. Dim strDate As String = _
DateTime.Today.Month.ToString("es-MX")

```

Answer: A

Question: 290

You need to return the contents of an isolated storage file as a string. The file is machine-scoped and is named Settings.dat. Which code segment should you use?

```

Dim objStream As IsolatedStorageFileStreamobjStream = New IsolatedStorageFileStream( _
"Settings.dat", FileMode.Open)
Dim result As String = New StreamReader(objStream).ReadToEnd
Dim objFile As IsolatedStorageFileobjFile =
IsolatedStorageFile.GetMachineStoreForAssemblyDim
objStream As IsolatedStorageFileStreamobjStream = New IsolatedStorageFileStream( _
"Settings.dat", FileMode.Open, objFile)
Dim result As String = New StreamReader(objStream).ReadToEnd
Dim objStream As IsolatedStorageFileStreamobjStream = New IsolatedStorageFileStream( _
"Settings.dat", FileMode.Open)
Dim result As String objStream.toString
Dim objFile As IsolatedStorageFileobjFile =
IsolatedStorageFile.GetMachineStoreForAssemblyDim
objStream As IsolatedStorageFileStreamobjStream = New IsolatedStorageFileStream( _
"Settings.dat", FileMode.Open, objFile)
Dim result As String = objStream.ToString

```

Answer: B

Question: 291

You are developing a method to decrypt data that was encrypted with the Triple DES Algorithm. The method accepts the following parameters: The byte array to be decrypted, which is named cipherMessageThe key, which is named keyAn initialization vector, which is named iv You need to decrypt the message by using the TripleDES class and place the result in a string. Which code segment should you use?

```

A. Dim objDES As New TripleDESCryptoServiceProviderobjDES.BlockSize =
cipherMessage.LengthDim
objCrypto As ICryptoTransform = _
objDES.CreateDecryptor(key, iv)
Dim cipherStream As New MemoryStream(cipherMessage)
Dim cryptoStream As New CryptoStream( _
cipherStream, objCrypto, CryptoStreamMode.Read)
Dim message As Stringmessage = New StreamReader(cryptoStream).ReadToEnd
B. Dim objDES As New TripleDESCryptoServiceProviderobjDES.FeedbackSize =
cipherMessage.LengthDim
objCrypto As ICryptoTransform = _
objDES.CreateDecryptor(key, iv)

```

```

Dim cipherStream As New MemoryStream(cipherMessage)
Dim cryptoStream As New CryptoStream( _
cipherStream, objCrypto, CryptoStreamMode.Read)
Dim message As Stringmessage = New StreamReader(cryptoStream).ReadToEnd
C. Dim objDES As New TripleDESCryptoServiceProvider
Dim objCrypto As ICryptoTransform = _
objDES.CreateDecryptor()
Dim cipherStream As New MemoryStream(cipherMessage)
Dim cryptoStream As New CryptoStream( _
cipherStream, objCrypto, CryptoStreamMode.Read)
Dim message As Stringmessage = New StreamReader(cryptoStream).ReadToEnd
D. Dim objDES As New TripleDESCryptoServiceProvider
Dim objCrypto As ICryptoTransform = _
objDES.CreateDecryptor(key, iv)
Dim cipherStream As New MemoryStream(cipherMessage)
Dim cryptoStream As New CryptoStream( _
cipherStream, objCrypto, CryptoStreamMode.Read)
Dim message As Stringmessage = New StreamReader(cryptoStream).ReadToEnd

```

Answer: D

Question: 292

You are creating a class that performs complex financial calculations. The class contains a method named `GetCurrentRate` that retrieves the current interest rate and a variable named `currRate` that stores the current interest rate.

You write serialized representations of the class.

You need to write a code segment that updates the `currRate` variable with the current interest rate when an instance of the class is deserialized. Which code segment should you use?

```

<OnSerializing> _Friend Sub UpdateValue (ByVal context As StreamingContext)
currRate = GetCurrentRate()
End Sub
<OnSerializing> _ Friend Sub UpdateValue(ByVal info As SerializationInfo)
info.AddValue("currentRate", GetCurrentRate())
End Sub
<OnDeserializing> _ Friend Sub UpdateValue(ByVal info As SerializationInfo)
info.AddValue("currentRate", GetCurrentRate())
End Sub
<OnDeserialized> _Friend Sub UpdateValue (ByVal context As StreamingContext)
currRate = GetCurrentRate()
End Sub

```

Answer: D

Question: 293

You are writing an application that uses isolated storage to store user preferences. The application uses multiple assemblies. Multiple users will use this application on the same computer. You need to create a directory named `Preferences` in the isolated storage area that is scoped to the current Microsoft Windows identity and assembly.

Which code segment should you use?

```

A. Dim objStore As IsolatedStorageFileobjStore =
IsolatedStorageFile.GetUserStoreForAssemblyobjStore.CreateDirectory("Preferences")
B. Dim objStore As IsolatedStorageFileobjStore =
IsolatedStorageFile.GetMachineStoreForAssemblyobjStore.CreateDirectory("Preferences")
C. Dim objStore As IsolatedStorageFileobjStore =
IsolatedStorageFile.GetUserStoreForDomainobjStore.CreateDirectory("Preferences")

```

```
D. Dim objStore As IsolatedStorageFileobjStore =  
IsolatedStorageFile.GetUserStoreForApplicationobjStore.CreateDirectory("Preferences")
```

Answer: A

Question: 294

You are developing a method that searches a string for a substring. The method will be localized to Italy.

Your method accepts the following parameters: The string to be searched, which is named SearchListThe string for which to search, which is named SearchValue You need to write the code. Which code segment should you use?

```
Return SearchList.IndexOf(SearchValue)  
Dim objComparer As CompareInfo = _
```

```
New CultureInfo("it-IT").CompareInfoReturn objComparer.Compare(SearchList,  
SearchValue)  
Dim objComparer As CompareInfo = _  
New CultureInfo("it-IT").CompareInfoIf SearchList.IndexOf(SearchValue) > 0 Then  
Return TrueElse  
Return FalseEnd If  
Dim objComparer As CompareInfo = _  
New CultureInfo("it-IT").CompareInfoIf objComparer.IndexOf(SearchList, SearchValue) > 0  
Then  
Return TrueElse  
Return FalseEnd If
```

Answer: D

Question: 295

You are developing a method to encrypt sensitive data with the Data Encryption Standard (DES) algorithm.

Your method accepts the following parameters:

The byte array to be encrypted, which is named messageAn encryption key, which is named keyAn initialization vector, which is named iv You need to encrypt the data. You also need to write the encrypted data to a MemoryStream object.

Which code segment should you use?

```
Dim objDES As New DESCryptoServiceProviderobjDES.BlockSize = message.Length  
Dim objCrypto As ICryptoTransform = obj  
DES.CreateDecryptor(key, iv)  
Dim cipherStream As New MemoryStream  
Dim cryptoStream As New CryptoStream(cipherStream, objCrypto,  
CryptoStreamMode.Write)  
Dim objDES As New DESCryptoServiceProvider  
Dim objCrypto As ICryptoTransform = objDES.CreateDecryptor(key, iv)  
Dim cipherStream As New MemoryStream  
Dim cryptoStream As New CryptoStream(cipherStream, objCrypto,  
CryptoStreamMode.Write)  
cryptoStream.Write(message, 0, message.Length)  
Dim objDES As New DESCryptoServiceProvider  
Dim objCrypto As ICryptoTransform = obj  
DES.CreateDecryptor()  
Dim cipherStream As New MemoryStream  
Dim cryptoStream As New CryptoStream(cipherStream, objCrypto,
```

```

CryptoStreamMode.Write)
cryptoStream.Write(message, 0, message.Length)
Dim objDES As New DESCryptoServiceProvider
Dim objCrypto As ICryptoTransform = obj
DES.CreateEncryptor(key, iv)
Dim cipherStream As New MemoryStream
Dim cryptoStream As New CryptoStream(cipherStream, objCrypto,
CryptoStreamMode.Write)
cryptoStream.Write(message, 0, message.Length)

```

Answer: D

Question: 296

You develop a service application named FileService. You deploy the service application to multiple servers on your network. You implement the following code segment. (Line numbers are included for reference only.)

```

01 Public Sub StartService(ByVal serverName As String)
02 Dim ctrl As ServiceController = _
03 New ServiceController("FileService")
04 If ctrl.Status = ServiceControllerStatus.Stopped Then
05 End If
06 End Sub

```

You need to develop a routine that will start FileService if it stops. The routine must start FileService on the server identified by the serverName input parameter.

Which two lines of code should you add to the code segment? (Each correct answer presents part of the solution. Choose two.)

- A. Insert the following line of code between lines 03 and 04: ctrl.ServiceName = serverName
- B. Insert the following line of code between lines 03 and 04: ctrl.MachineName = serverName
- C. Insert the following line of code between lines 03 and 04: ctrl.Site.Name = serverName
- D. Insert the following line of code between lines 04 and 05: ctrl.Continue()
- E. Insert the following line of code between lines 04 and 05: ctrl.Start()
- F. Insert the following line of code between lines 04 and 05: ctrl.ExecuteCommand(0)

Answer: B, E

Question: 297

You are developing an application to perform mathematical calculations. You develop a class named CalculationValues. You write a procedure named PerformCalculation that operates on an instance of the class.

You need to ensure that the user interface of the application continues to respond while calculations are being performed. You need to write a code segment that calls the PerformCalculation procedure to achieve this goal.

Which code segment should you use?

- A. Private Sub PerformCalculation()...End Sub Private Sub DoWork()
Dim myValues As New CalculationValues()
Dim newThread As New Thread(_
New ThreadStart(AddressOf PerformCalculation))
newThread.Start(myValues)
End Sub
- B. Private Sub PerformCalculation()...End Sub Private Sub DoWork()
Dim myValues As New CalculationValues()
Dim delStart As New ThreadStart(_AddressOf PerformCalculation)
Dim newThread As New Thread(delStart)If newThread.IsAlive
ThennewThread.Start(myValues)

```

End If
End Sub
C. Private Sub PerformCalculation ( _ByVal values As CalculationValues)...End Sub Private Sub
DoWork()
Dim myValues As New CalculationValues()
Application.DoEvents()

PerformCalculation(myValues)
Application.DoEvents()
End Sub
D. Private Sub PerformCalculation ( _ByVal values As Object)...End Sub Private Sub DoWork()
Dim myValues As New CalculationValues()
Dim newThread As New Thread( _
New ParameterizedThreadStart( _AddressOf PerformCalculation))
newThread.Start(myValues)
End Sub

```

Answer: D

Question: 298

You are developing a method that searches a string for a substring. The method will be localized to Italy.

Your method accepts the following parameters: The string to be searched, which is named SearchList The string for which to search, which is named SearchValue You need to write the code. Which code segment should you use?

```

Return SearchList.IndexOf(SearchValue)
B. Dim objComparer As CompareInfo = _
New CultureInfo("it-IT").CompareInfo Return objComparer.Compare(SearchList,
SearchValue)
Dim objComparer As CompareInfo = _
New CultureInfo("it-IT").CompareInfo If SearchList.IndexOf(SearchValue) > 0 Then
Return True Else
Return False End If
Dim objComparer As CompareInfo = _
New CultureInfo("it-IT").CompareInfo If objComparer.IndexOf(SearchList, SearchValue) > 0
Then
Return True Else
Return False End If

```

Answer: D

Question: 299

You are creating an application that lists processes on remote computers. The application requires a method that performs the following tasks: Accept the remote computer name as a string parameter named strComputer. Return an ArrayList object that contains the names of all processes that are running on that computer. You need to write a code segment that retrieves the name of each process that is running on the remote computer and adds the name to the ArrayList object. Which code segment should you use?

```

A. Dim al As New ArrayList()
Dim procs As Process() = _ Process.GetProcessesByName(strComputer)
Dim proc As Process For Each proc In procs al.Add(proc)
Next
B. Dim al As New ArrayList()
Dim procs As Process() = Process.GetProcesses(strComputer)
Dim proc As Process For Each proc In procs al.Add(proc)

```

```

Next
C. Dim al As New ArrayList()
Dim procs As Process() = _ Process.GetProcessesByName(strComputer)
Dim proc As ProcessFor Each proc In procs al.Add(proc.ProcessName)
Next
D. Dim al As New ArrayList()
Dim procs As Process() = Process.GetProcesses(strComputer)
Dim proc As ProcessFor Each proc In procs al.Add(proc.ProcessName)
Next

```

Answer: D

Question: 300

You are writing a method that returns an ArrayList named al. You need to ensure that changes to the ArrayList are performed in a thread-safe manner. Which code segment should you use?

```

Dim al As ArrayList = New ArrayList()
SyncLock
al.SyncRoot
Return al
End SyncLock
Dim al As ArrayList = New ArrayList()
SyncLock
al.SyncRoot.GetType()
Return al
End SyncLock
Dim al As ArrayList = New ArrayList()
Monitor.Enter(al)
Monitor.Exit(al)
Return al
Dim al As ArrayList = New ArrayList()
Dim sync_al as ArrayList = ArrayList.Synchronized(al)
Return sync_al

```

Answer: D

Question: 301

You create a method that runs by using the credentials of the end user. You need to use Microsoft Windows groups to authorize the user. You must add a code segment that identifies whether a user is in the local group named Clerk. Which code segment should you use?

```

A. Dim objUser As WindowsIdentity = WindowsIdentity.GetCurrentFor Each objGroup As
IdentityReference
In objUser.Groups
Dim objNT As NTAccount = _ DirectCast(objGroup.Translate( _
Type.GetType("NTAccount")), NTAccount)
Dim blnAuth As Boolean = objNT.Value.Equals( _
Environment.MachineName & "\Clerk")
If blnAuth Then Exit For
Next
B. Dim objUser As WindowsPrincipal = _ DirectCast(Thread.CurrentPrincipal,
WindowsPrincipal)
Dim blnAuth As Boolean = objUser.IsInRole("Clerk")
C. Dim objUser As GenericPrincipal = _ DirectCast(Thread.CurrentPrincipal, GenericPrincipal)
Dim blnAuth As Boolean = objUser.IsInRole("Clerk")
D. Dim objUser As WindowsPrincipal = _ DirectCast(Thread.CurrentPrincipal,

```

```
WindowsPrincipal)  
Dim blnAuth As Boolean = _ objUser.IsInRole(Environment.MachineName)
```

Answer: B

Question: 302

You are developing a server application that will transmit sensitive information on a network. You create an X509Certificate object named certificate and a TcpClient object named client. You need to create an SslStream to communicate by using the Transport Layer Security 1.0 protocol. Which code segment should you use?

```
Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False,  
_ SslProtocols.None, True)  
Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False,  
_ SslProtocols.Ssl3, True)  
Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False,  
_ SslProtocols.Ssl2, True)  
Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False,  
_ SslProtocols.Tls, True)
```

Answer: D

Question: 303

You are testing a method that examines a running process. This method returns an ArrayList containing the name and full path of all modules that are loaded by the process. You need to list the modules loaded by a process named C:\TestApps\Process1.exe. Which code segment should you use?

```
Dim ar As New ArrayList()  
Dim procs As Process()  
Dim modules As ProcessModuleCollectionprocs = Process.GetProcesses("Process1")If  
procs.Length > 0  
Thenmodules = procs(0).Modules  
For Each pm As ProcessModule In Modules  
ar.Add(pm.ModuleName)  
Next  
End If  
Dim ar As New ArrayList()  
Dim procs As Process()  
Dim modules As ProcessModuleCollectionprocs =  
Process.GetProcesses("C:\TestApps\Process1.exe")If  
procs.Length > 0 Thenmodules = procs(0).Modules  
For Each pm As ProcessModule In Modules  
ar.Add(pm.ModuleName)  
Next  
End If  
Dim ar As New ArrayList()  
Dim procs As Process()  
Dim modules As ProcessModuleCollectionprocs =  
Process.GetProcessesByName("Process1")If procs.Length >  
0 Thenmodules = procs(0).Modules  
For Each pm As ProcessModule In Modules  
ar.Add(pm.FileName)  
Next  
End If  
Dim ar As New ArrayList()  
Dim procs As Process()  
Dim modules As ProcessModuleCollectionprocs =
```

```

_Process.GetProcessesByName("C:\TestApps\Process1.exe")If procs.Length > 0
Thenmodules = procs(0).Modules
For Each pm As ProcessModule In Modules
ar.Add(pm.FileName)
Next
End If

```

Answer: C

Question: 304

You need to write a code segment that transfers the contents of a byte array named dataToSend by using a NetworkStream object named netStream. You need to use a cache of size 8,192 bytes. Which code segment should you use?

```

Dim memStream As New MemoryStream(8192)memStream.Write(dataToSend, 0, _
CType(netStream.Length, Integer))
Dim memStream As New MemoryStream(8192)netStream.Write(dataToSend, 0, _
CType(memStream.Length, Integer))
Dim bufStream As New BufferedStream(netStream, 8192)
bufStream.Write(dataToSend, 0, dataToSend.Length)
Dim bufStream As New BufferedStream(netStream)
bufStream.Write(dataToSend, 0, 8192)

```

Answer: C

Question: 305

You are creating an undo buffer that stores data modifications. You need to ensure that the undo functionality undoes the most recent data modifications first. You also need to ensure that the undo buffer permits the storage of strings only. Which code segment should you use?

- A. Dim undoBuffer As New Stack(Of String)
- B. Dim undoBuffer As New Stack()
- C. Dim undoBuffer As New Queue(Of String)
- D. Dim undoBuffer As New Queue()

Answer: A

Question: 306

You are loading a new assembly into an application. You need to override the default evidence for the assembly. You require the common language runtime (CLR) to grant the assembly a permission set, as if the assembly were loaded from the local intranet zone.

You need to build the evidence collection. Which code segment should you use?

```

Dim objEvidence As New Evidence( _ Assembly.GetExecutingAssembly.Evidence
Dim objEvidence As New EvidenceobjEvidence.AddAssembly( _ New
Zone(SecurityZone.Intranet))
Dim objEvidence As New EvidenceobjEvidence.AddHost( _ New Zone(SecurityZone.Intranet))
Dim objEvidence As New Evidence( _ AppDomain.CurrentDomain.Evidence)

```

Answer: C

Question: 307

You are writing code for user authentication and authorization. The username, password, and roles are stored in your application data store.

You need to establish a user security context that will be used for authorization checks such as IsInRole. You write the following code segment to authorize the user.

```

If TestPassword(Username, Password) = False Then
Throw New Exception("Could not authenticate user")

```

End If

Dim RolesArray() As String = LookUpUserRoles(UserName)

You need to complete this code so that it establishes the user security context. Which code segment should you use?

A. Dim objID As New GenericIdentity(UserName)

Dim objUser As New GenericPrincipal(objID, RolesArray)

Thread.CurrentPrincipal = objUser

B. Dim objID As New WindowsIdentity(UserName)

Dim objUser As New WindowsPrincipal(objID)

Thread.CurrentPrincipal = objUser

Dim objNT As New NTAccount(UserName)

C. Dim objID As New GenericIdentity(objNT.Value)

Dim objUser As New GenericPrincipal(objID, RolesArray)

Thread.CurrentPrincipal = objUser

D. Dim objToken As IntPtr = IntPtr.Zero

objToken = LogonUserUsingInterop(UserName, EncryptedPassword)

Dim objContext As WindowsImpersonationContext = _indowsIdentity.Impersonate(objToken)

Answer: A

Question: 308

You write the following code segment to call a function from the Win32 Application Programming Interface (API) by using platform invoke.

Dim PersonName as String = "N?el"

Dim Msg as String = "Welcome " + PersonName + " to club !"

Dim r As Boolean= User32API.MessageBox(0, Msg, PersonName, 0)

You need to define a method prototype that can best marshal the string data. Which code segment should you use?

<DllImport("user32", CharSet:=CharSet.Ansi)> _Public Function MessageBox(ByVal hWnd As
IntPtr, _ByVal text As String, ByVal caption As String, _ByVal t As UInt32) As BooleanEnd
Function

<DllImport("user32", EntryPoint:="MessageBoxA", _CharSet:=CharSet.Ansi)> _Public Function
MessageBox(ByVal hWnd As IntPtr, _<MarshalAs(UnmanagedType.LPWStr)> ByVal text As
String, _<MarshalAs(UnmanagedType.LPWStr)> ByVal caption As String, _ByVal t As
UInt32) As Boolean End Function

<DllImport("user32", CharSet:=CharSet.Unicode)> _Public Function MessageBox(ByVal hWnd
As IntPtr, _ByVal text As String, ByVal caption As String, _ByVal t As UInt32) As BooleanEnd
Function

DllImport("user32", EntryPoint:="MessageBoxA", _CharSet:=CharSet.Unicode)> _Public Function
MessageBox(ByVal hWnd As IntPtr, _<MarshalAs(UnmanagedType.LPWStr)> ByVal text As
String, _<MarshalAs(UnmanagedType.LPWStr)> ByVal caption As String, _ByVal t As
UInt32) As BooleanEnd Function

Answer: C

Question: 309

You need to create a dynamic assembly named MyAssembly. You also need to save the assembly to disk.

Which code segment should you use?

A. Dim objAssembly As New AssemblyName(objAssembly.Name = "MyAssembly")Dim

objBuilder As

AssemblyBuilder = _AppDomain.CurrentDomain.DefineDynamicAssembly(_objAssembly,
AssemblyBuilderAccess.Run)objBuilder.Save("MyAssembly.dll")

B. Dim objAssembly As New AssemblyName(objAssembly.Name = "MyAssembly")Dim

objBuilder As

AssemblyBuilder = _AppDomain.CurrentDomain.DefineDynamicAssembly(_objAssembly,

```

AssemblyBuilderAccess.Save)objBuilder.Save("MyAssembly.dll")
C. Dim objAssembly As New AssemblyName(objAssembly.Name = "MyAssembly"Dim
objBuilder As
AssemblyBuilder = _AppDomain.CurrentDomain.DefineDynamicAssembly( _objAssembly,
AssemblyBuilderAccess.RunAndSave)objBuilder.Save("MyAssembly.dll")
D. Dim objAssembly As New AssemblyName(objAssembly.Name = "MyAssembly"Dim
objBuilder As
AssemblyBuilder = _AppDomain.CurrentDomain.DefineDynamicAssembly( _objAssembly,
AssemblyBuilderAccess.Save)objBuilder.Save("c:\MyAssembly.dll")

```

Answer: B

Question: 310

You need to generate a report that lists language codes and region codes.

Which code segment should you use?

```

For Each objCulture As CultureInfo
In _CultureInfo.GetCultures(CultureTypes.SpecificCultures)
...Next
Dim objCulture As New CultureInfo("")
Dim objTypes As CultureTypes = obj
Culture.CultureTypes
...
For Each objCulture As CultureInfo In
_CultureInfo.GetCultures(CultureTypes.NeutralCultures)
...Next
For Each objCulture As CultureInfo
In _CultureInfo.GetCultures(CultureTypes.ReplacementCultures)
...Next

```

Answer: A

Question: 311

You create an application that stores information about your customers who reside in various regions. You are developing internal utilities for this application.

You need to gather regional information about your customers in Canada.

Which code segment should you use?

```

A. For Each objCulture As CultureInfo
In _CultureInfo.GetCultures(CultureTypes.SpecificCultures)
...Next
B. Dim objCulture As New CultureInfo("CA")
...
C. Dim objRegion As New RegionInfo("CA")
...
D. Dim objRegion As New RegionInfo("")If objRegion.Name = "CA" Then
...End If

```

Answer: C

Question: 312

You are writing a method to compress an array of bytes. The array is passed to the method in a parameter named document. You need to compress the incoming array of bytes and return the result as an array of bytes.

Which code segment should you use?

```

Dim objStream As New MemoryStream(document)
Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)

```

```

Dim result(document.Length) As Byteobj
Deflate.Write(result, 0, result.Length)Return result
Dim objStream As New MemoryStream(document)
Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)obj
Deflate.Write(document, 0, document.Length)obj
Deflate.Close()Return objStream.ToArray
Dim objStream As New MemoryStream()
Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)obj
Deflate.Write(document, 0, document.Length)obj
Deflate.Close()Return objStream.ToArray
D. Dim objStream As New MemoryStream()
Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)
Dim outStream As New MemoryStreamDim b As IntegerWhile (b = objDeflate.ReadByte)
outStream.WriteByte(CByte(b))
End While
Return outStream.ToArray

```

Answer: C

Question: 313

You are creating an application that retrieves values from a custom section of the application configuration file. The custom section uses XML as shown in the following block.

```

<ProjectSection name="ProjectCompany">
<role name="administrator" />
<role name="manager" />
<role name="support" />
</ProjectSection>

```

You need to write a code segment to define a class named Role. You need to ensure that the Role class is initialized with values that are retrieved from the custom section of the configuration file. Which code segment should you use?

A. Public Class RoleInherits ConfigurationElementFriend _ElementName As String = "name"

```

<ConfigurationProperty("role")> _
Public ReadOnly Property Name() As String
Get
Return CType(Me("role"), String)
End Get
End Property
End Class

```

B. Public Class Role
Inherits ConfigurationElement
Friend _ElementName As String = "role"
<ConfigurationProperty("name", IsRequired:=True)> _
Public ReadOnly Property Name() As String
Get
Return CType(Me("name"), String)
End Get
End Property
End Class

C. Public Class Role
Inherits ConfigurationElement
Friend _ElementName As String = "role"
Private _name As String
<ConfigurationProperty("name")> _
Public ReadOnly Property Name() As String
Get
Return _name
End Get

```

End Property
End Class
D. Public Class Role
Inherits ConfigurationElement
Friend _ElementName As String = "name"
Private _name As String
<ConfigurationProperty("role", IsRequired:=True)> _
Public ReadOnly Property Name() As String
Get
Return _name
End Get
End Property
End Class

```

Answer: B

Question: 314

You are creating a class to compare a specially-formatted string. The default collation comparisons do not apply. You need to implement the IComparable(Of String) interface. Which code segment should you use?

```

A. Public Class Person
Implements IComparable(Of String)Public Function CompareTo(ByVal other As String) As
_Integer
Implements IComparable(Of String).CompareTo...End Function
End Class
B. Public Class Person
Implements IComparable(Of String)Public Function CompareTo(ByVal other As Object) As
_Integer
Implements IComparable(Of String).CompareTo...End Function
End Class
C. Public Class Person
Implements IComparable(Of String)Public Function CompareTo(ByVal other As String) _As
Boolean
Implements IComparable(Of String).CompareTo...End Function
End Class
D. Public Class Person
Implements IComparable(Of String)Public Function CompareTo(ByVal other As Object) _As
Boolean
Implements IComparable(Of String).CompareTo...End Function
End Class

```

Answer: A

Question: 315

You write the following custom exception class named CustomException.

```

Public Class CustomException
Inherits ApplicationException
Public Shared COR_E_ARGUMENT As Int32 = &H80070057
Public Sub New(ByVal strMessage As String)
MyBase.New(strMessage)
HResult = COR_E_ARGUMENT
End SubEnd Class

```

You need to write a code segment that will use the CustomException class to immediately return control to the COM caller. You also need to ensure that the caller has access to the error code. Which code segment should you use?

- A. Return Marshal.GetExceptionForHR(_ CustomException.COR_E_ARGUMENT)
- B. Return CustomException.COR_E_ARGUMENT
- C. Marshal.ThrowExceptionForHR(_ CustomException.COR_E_ARGUMENT)
- D. Throw New CustomException("Argument is out of bounds")

Answer: D

Question: 316

You develop a service application named PollingService that periodically calls long-running procedures. These procedures are called from the DoWork method.

You use the following service application code:

```
Partial Class PollingService Inherits ServiceBase
Dim blnExit As Boolean = False Protected Overrides Sub OnStart(ByVal args() As String)
Do
DoWork()
Loop While Not blnExit
End Sub
Protected Overrides Sub OnStop()
blnExit = True
End Sub
Private Sub DoWork()
End SubEnd Class
```

When you attempt to start the service, you receive the following error message: Could not start the PollingService service on the local computer. Error 1053: The service did not respond to the start or control request in a timely fashion. You need to modify the service application code so that the service starts properly.

What should you do?

- A. Move the loop code into the constructor of the service class from the OnStart method.
- B. Drag a timer component onto the design surface of the service. Move the calls to the longrunning procedure from the OnStart method into the Tick event procedure of the timer, set the Enabled property of the timer to True, and call the Start method of the timer in the OnStart method.
- C. Add a class-level System.Timers.Timer variable to the service class code. Move the call to the DoWork method into the Elapsed event procedure of the timer, set the Enabled property of the timer to True, and call the Start method of the timer in the OnStart method.
- D. Move the loop code from the OnStart method into the DoWork method.

Answer: C

Question: 317

You are creating a new security policy for an application domain. You write the following lines of code.

```
Dim objPolicy As PolicyLevel = PolicyLevel.CreateAppDomainLevelDim noTrustStatement As
New
PolicyStatement(_objPolicy.GetNamedPermissionSet("Nothing"))
Dim fullTrustStatement As New PolicyStatement(_
objPolicy.GetNamedPermissionSet("FullTrust"))
```

You need to arrange code groups for the policy so that loaded assemblies default to the Nothing

permission set.

If the assembly originates from a trusted zone, the security policy must grant the assembly the FullTrust permission set. Which code segment should you use?

- A. Dim objGroup1 As CodeGroup = New FirstMatchCodeGroup(_ New ZoneMembershipCondition(SecurityZone.Trusted), _ fullTrustStatement)
Dim objGroup2 As CodeGroup = New UnionCodeGroup(_ New AllMembershipCondition, noTrustStatement)
- B. Dim objGroup1 As CodeGroup = New FirstMatchCodeGroup(_ New AllMembershipCondition, noTrustStatement)
Dim objGroup2 As CodeGroup = New UnionCodeGroup(_ New ZoneMembershipCondition(SecurityZone.Trusted), _ fullTrustStatement)
- C. Dim objGroup As CodeGroup = New UnionCodeGroup(_ New ZoneMembershipCondition(SecurityZone.Trusted), _ fullTrustStatement)
- D. Dim objGroup As CodeGroup = New FirstMatchCodeGroup(_ New ZoneMembershipCondition(SecurityZone.Trusted), _ fullTrustStatement)

Answer: B

Question: 318

You are developing a utility screen for a new client application. The utility screen displays a thermometer that conveys the current status of processes being carried out by the application. You need to draw a rectangle on the screen to serve as the background of the thermometer as shown in the exhibit. The rectangle must be filled with gradient shading. (Click the Exhibit button.) Which code segments should you choose?

Exhibit:

- A. Dim objRect As New Rectangle(10, 10, 450, 25)
Dim objBrush As New LinearGradientBrush(_objRect, Color.AliceBlue, Color.CornflowerBlue, _LinearGradientMode.ForwardDiagonal)
Dim objPen As New Pen(objBrush)
Dim g As Graphics = myForm.CreateGraphicsg.DrawRectangle(objPen, objRect)
- B. Dim objRect As New Rectangle(10, 10, 450, 25)
Dim objBrush As New LinearGradientBrush(_objRect, Color.AliceBlue, Color.CornflowerBlue, _LinearGradientMode.ForwardDiagonal)
Dim objPen As New Pen(objBrush)
Dim g As Graphics = myForm.CreateGraphicsg.FillRectangle(objBrush, objRect)
- C. Dim objRect As New RectangleF(10.0F, 10.0F, 450.0F, 25.0F)
Dim points() As System.Drawing.Point = _{New Point(0, 0), New Point(110, 145)}
Dim objBrush As New LinearGradientBrush(_objRect, Color.AliceBlue, Color.CornflowerBlue, _LinearGradientMode.ForwardDiagonal)
Dim objPen As New Pen(objBrush)
Dim g As Graphics = myForm.CreateGraphicsg.DrawPolygon(objPen, points)
- D. Dim objRect As New Rectangle(10, 10, 450, 25)
Dim objBrush As New SolidBrush(Color.AliceBlue)
Dim objPen As New Pen(objBrush)
Dim g As Graphics = myForm.CreateGraphicsg.DrawRectangle(objPen, objRect)

Answer: B

Question: 319

You need to write a code segment that transfers the first 80 bytes from a stream variable named stream1 into a new byte array named byteArray. You also need to ensure that the code segment

assigns the number of bytes that are transferred to an integer variable named bytesTransferred. Which code segment should you use?

- A. bytesTransferred = stream1.Read(byteArray, 0, 80)
- B. For i As Integer = 1 To 80
stream1.WriteByte(byteArray(i))
bytesTransferred = i
If Not stream1.CanWrite Then
Exit For
End If
Next
- C. While bytesTransferred < 80
stream1.Seek(1, SeekOrigin.Current)
byteArray(bytesTransferred) = _
Convert.ToByte(stream1.ReadByte())bytesTransferred += 1End While
- D. stream1.Write(byteArray, 0, 80)bytesTransferred = byteArray.Length

Answer: A

Question: 320

You are developing an application to assist the user in conducting electronic surveys. The survey consists of 25 true-or-false questions. You need to perform the following tasks: Initialize each answer to true.Minimize the amount of memory used by each survey. Which storage option should you choose?

- A. Dim answers As New BitVector32(1)
- B. Dim answers As New BitVector32(-1)
- C. Dim answers As New BitArray(1)
- D. Dim answers As New BitArray(-1)

Answer: B

Question: 321

You are testing a newly developed method named PersistToDB. This method accepts a parameter of type EventLogEntry. This method does not return a value. You need to create a code segment that helps you to test the method. The code segment must read entries from the application log of local computers and then pass the entries on to the PersistToDB method. The code block must pass only events of type Error or Warning from the source MySource to the PersistToDB method.

Which code segment should you use?

- A. Dim myLog As New EventLog("Application", ".")
For Each entry As EventLogEntry In myLog.Entries
If entry.Source = "MySource" Then
PersistToDB(entry)
End If
Next
- B. Dim myLog as New EventLog("Application", ".")
myLog.Source = "MySource"
For Each entry As EventLogEntry In myLog.Entries
If entry.EntryType = (EventLogEntryType.Error And _
EventLogEntryType.Warning) Then
PersistToDB(entry)
End If
Next
- C. Dim myLog as New EventLog("Application", ".")
For Each entry As EventLogEntry In myLog.Entries
If entry.Source = "MySource" Then

```

If (entry.EntryType = EventLogEntryType.Error) Or _
(entry.EntryType = EventLogEntryType.Warning) Then
PersistToDB(entry)
End If
End If
Next
D. Dim myLog as New EventLog("Application", ".")
myLog.Source = "MySource"
For Each entry As EventLogEntry In myLog.Entries
If (entry.EntryType = EventLogEntryType.Error) Or _
(entry.EntryType = EventLogEntryType.Warning) Then
PersistToDB(entry)
End If
Next

```

Answer: C

Question: 322

You are writing a method to compress an array of bytes. The bytes to be compressed are passed to the method in a parameter named document.

You need to compress the contents of the incoming parameter.

Which code segment should you use?

```

A. Dim inStream As New MemoryStream(document)
Dim zipStream As New GZipStream( _inStream, CompressionMode.Compress)
Dim result(document.Length) As BytezipStream.Write(result, 0, result.Length)Return result
B. Dim objStream As New MemoryStream(document)
Dim zipStream As New GZipStream( _
objStream, CompressionMode.Compress)zipStream.Write(document, 0,
document.Length)zipStream.Close()Return objStream.ToArray
C. Dim outStream As New MemoryStreamDim zipStream As New GZipStream( _outStream,
CompressionMode.Compress)zipStream.Write(document, 0,
document.Length)zipStream.Close()Return
outStream.ToArray
D. Dim objStream As New MemoryStream(document)
Dim zipStream As New GZipStream( _objStream, CompressionMode.Compress)
Dim outStream As New MemoryStreamDim b As IntegerWhile (b =
zipStream.ReadByte)outStream.WriteByte(CByte(b))
End WhileReturn outStream.ToArray

```

Answer: C

Question: 323

You need to create a class definition that is interoperable along with COM. You need to ensure that COM applications can create instances of the class and can call the GetAddress method.

Which code segment should you use?

```

A. Public Class Customer
Private m_AddressString As String
Public Sub New(ByVal Address As String)
m_AddressString = Address
End Sub
Public Function GetAddress() As String
Return m_AddressString
End Function
End Class
B. Public Class Customer
Shared m_AddressString As String

```

```

Public Sub New()
End Sub
Public Shared Function GetAddress() As String
Return m_AddressString
End Function
End Class
C. Public Class Customer
Private m_AddressString As String
Public Sub New()
End Sub
Public Function GetAddress() As String
Return m_AddressString
End Function
End Class
D. Public Class Customer
Private m_AddressString As String
Public Sub New()
End Sub
Private Function GetAddress() As String
Return m_AddressString
End Function
End Class

```

Answer: C

Question: 324

You need to generate a report that lists language codes and region codes.
Which code segment should you use?

```

A. For Each objCulture As CultureInfo
In_CultureInfo.GetCultures(CultureTypes.SpecificCultures)
...Next
B. Dim objCulture As New CultureInfo("")
Dim objTypes As CultureTypes = objCulture.CultureTypes
...
C. For Each objCulture As CultureInfo
In_CultureInfo.GetCultures(CultureTypes.NeutralCultures)
...Next
D. For Each objCulture As CultureInfo
In_CultureInfo.GetCultures(CultureTypes.ReplacementCultures)
...Next

```

Answer: A

Question: 325

You are creating a class named Age.
You need to ensure that the Age class is written such that collections of Age objects can be sorted. Which code segment should you use?

```

A. Public Class Age
Public Value As Integer
Public Function CompareTo(ByVal obj As Object) As Object
If TypeOf obj Is Age Then
Dim _age As Age = CType(obj, Age)
Return Value.CompareTo(obj)
End If

```

```

Throw New ArgumentException("object not an Age")
End Function
End Class
B. Public Class Age
Public Value As Integer
Public Function CompareTo(ByVal iValue As Integer) As Object
Try
Return Value.CompareTo(iValue)
Catch
Throw New ArgumentException ("object not an Age")
End Try
End Function
End Class
C. Public Class Age
Implements IComparable
Public Value As Integer
Public Function CompareTo(ByVal obj As Object) As Integer _
Implements IComparable.CompareTo
If TypeOf obj Is Age Then
Dim _age As Age = CType(obj, Age)
Return Value.CompareTo(_age.Value)
End If
Throw New ArgumentException("object not an Age")
End Function
End Class
D. Public Class Age
Implements IComparable
Public Value As Integer
Public Function CompareTo(ByVal obj As Object) As Integer _
Implements IComparable.CompareTo
Try
Return Value.CompareTo((CType(obj, Age)).Value)
Catch
Return -1
End Try
End Function
End Class

```

Answer: C

Question: 326

You are testing a component that serializes the Meeting class instances so that they can be saved to the file system. The Meeting class has the following definition:

```

Public Class Meeting
Private title As String
Public roomNumber As Integer
Public invitees As String()
Public Sub New()
End Sub
Public Sub New(ByVal t As String)
title = t
End Sub
End Class

```

The component contains a procedure with the following code segment.

```

Dim myMeeting As New Meeting("Goals")
myMeeting.roomNumber = 1100

```

```

Dim attendees As String() = New String(1) {"Company", "Mary"}
myMeeting.invitees = attendees
Dim xs As New XmlSerializer(GetType(Meeting))
Dim writer As New StreamWriter("C:\Meeting.xml")
xs.Serialize(writer, myMeeting)
writer.Close()

```

You need to identify the XML block that is written to the C:\Meeting.xml file as a result of running this procedure. Which XML block represents the content that will be written to the C:\Meeting.xml file?

A. <?xml version="1.0" encoding="utf-8"?>
 <Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
 <title>Goals</title>
 <roomNumber>1100</roomNumber>
 <invitee>Company</invitee>
 <invitee>Mary</invitee>
 </Meeting>

B. <?xml version="1.0" encoding="utf-8"?>
 <Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
 <roomNumber>1100</roomNumber>
 <invitees>
 <string>Company</string>
 <string>Mary</string>
 </invitees>
 </Meeting>

C. <?xml version="1.0" encoding="utf-8"?>
 <Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 title="Goals">
 <roomNumber>1100</roomNumber>
 <invitees>
 <string>Company</string>
 <string>Mary</string>
 </invitees>
 </Meeting>

D. <?xml version="1.0" encoding="utf-8"?>
 <Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
 <roomNumber>1100</roomNumber>
 <invitees>
 <string>Company</string>
 </invitees>
 <invitees>
 <string>Mary</string>
 </invitees>
 </Meeting>

Answer: B

Question: 327

You write the following code to implement the CompanyClass.MyMethod function.

```

Public Class NewClass
Public Function MyMethod(ByVal Arg As Integer) As Integer
Return Arg

```

End Function

End Class

You need to call the CompanyClass.MyMethod function dynamically from an unrelated class in your assembly. Which code segment should you use?

- A. Dim objNewClass As New NewClassDim objType As Type = objNewClass.GetTypeDim objInfo As MethodInfo = _objType.GetMethod("MyMethod")
Dim objParams() As Object = {1}
Dim i As Integer = _DirectCast(objInfo.Invoke(Me, objParams), Integer)
- B. Dim objNewClass As New NewClassDim objType As Type = objNewClass.GetTypeDim objInfo As MethodInfo = objType.GetMethod("MyMethod")
Dim objParams() As Object = {1}
Dim i As Integer = _DirectCast(objInfo.Invoke(objNewClass, objParams), Integer)
- C. Dim objNewClass As New NewClassDim objType As Type = objNewClass.GetTypeDim objInfo As MethodInfo = _objType.GetMethod("NewClass.MyMethod")
Dim objParams() As Object = {1}
Dim i As Integer = _DirectCast(objInfo.Invoke(objNewClass, objParams), Integer)
- D. Dim objType As Type = Type.GetType("NewClass")
Dim objInfo As MethodInfo = objType.GetMethod("MyMethod")
Dim objParams() As Object = {1}
Dim i As Integer = _DirectCast(objInfo.Invoke(Me, objParams), Integer)

Answer: B

Question: 328

You are using the Microsoft Visual Studio 2005 IDE to examine the output of a method that returns a string. You assign the output of the method to a string variable named fName. You need to write a code segment that prints the following on a single line

The message: "Test Failed: " The value of fName if the value of fName does not equal "Company" You also need to ensure that the code segment simultaneously facilitates uninterrupted execution of the application.

Which code segment should you use?

- A. Debug.Assert(fName = "Company", "Test Failed: ", fName)
- B. Debug.WriteLineIf(fName <> "Company", _ fName, "Test Failed")
- C. If fName <> "Company" Then
Debug.Print("Test Failed: ")
Debug.Print(fName)
End If
- D. If fName <> "Company" Then
Debug.WriteLine("Test Failed: ")
Debug.WriteLine(fName)
End If

Answer: B

Question: 329

You create a class library that contains the class hierarchy defined in the following code segment. (Line numbers are included for reference only.)

```
01 Public Class Group
02 Public Employees As Employee()
03 End Class
04
05 Public Class Employee
06 Public Name As String
```

```
07 End Class
08
09 Public Class Manager
10 Inherits Employee
11 Public Level As Integer
12 End Class
```

You create an instance of the Group class. You populate the fields of the instance. When you attempt to serialize the instance by using the Serialize method of the XmlSerializer class, you receive InvalidOperationException. You also receive the following error message: "There was an error generating the XML document."

You need to modify the code segment so that you can successfully serialize instances of the Group class by using the XmlSerializer class. You also need to ensure that the XML output contains an element for all public fields in the class hierarchy. What should you do?

A. Insert the following code between lines 1 and 2 of the code segment:

```
<XmlArrayItem(Type:=GetType(Employee))> _
<XmlArrayItem(Type:=GetType(Manager))> _
```

B. Insert the following code between lines 1 and 2 of the code segment:

```
<XmlElement(Type:=GetType(Employee))> _
```

C. Insert the following code between lines 1 and 2 of the code segment:

```
<XmlArray(ElementName:="Employees")> _
```

D. Insert the following code between lines 5 and 6 of the code segment:

```
<XmlElement(Type:=GetType(Employee))>
```

And

Insert the following code between lines 10 and 11 of the code segment:

```
<XmlElement(Type:=GetType(Manager))>
```

Answer: A

Question: 330

You need to write a code segment that performs the following tasks:

- * Retrieves the name of each paused service.
- * Passes the name to the Add method of Collection1.

Which code segment should you use?

```
A. ManagementObjectSearcher^ searcher =
gnew ManagementObjectSearcher(
"Select * from Win32_Service where State = 'Paused'");
for each (ManagementObject^ svc in searcher->Get()) {
Collection1->Add(svc["DisplayName"]);
}
```

```
B. ManagementObjectSearcher^ searcher =
gnew ManagementObjectSearcher(
"Select * from Win32_Service", "State = 'Paused'");
for each (ManagementObject^ svc in searcher->Get()) {
Collection1->Add(svc["DisplayName"]);
}
```

```
C. ManagementObjectSearcher^ searcher =
gnew ManagementObjectSearcher(
"Select * from Win32_Service");
for each (ManagementObject^ svc in searcher->Get()) {
if ((String^) svc["State"] == "Paused") {
Collection1->Add(svc["DisplayName"]);
}}
}
```

```
D. ManagementObjectSearcher^ searcher =
gnew ManagementObjectSearcher();
```

```

searcher->Scope = gcnew ManagementScope("Win32_Service");
for each (ManagementObject^ svc in searcher->Get()) {
if ((String^)svc["State"] == "Paused") {
Collection1->Add(svc["DisplayName"]);
}}

```

Answer: A

Question: 331

You are developing an application that dynamically loads assemblies from an application directory.

You need to write a code segment that loads an assembly named Company1.dll into the current application domain. Which code segment should you use?

- A. AppDomain^ domain = AppDomain::CurrentDomain;
String^ myPath = Path::Combine(domain->BaseDirectory, "Company1.dll");
Assembly^ assm = Assembly::LoadFrom(myPath);
- B. AppDomain^ domain = AppDomain::CurrentDomain;

- String^ myPath = Path::Combine(domain->BaseDirectory, "Company1.dll");
Assembly^ assm = Assembly::Load(myPath);
- C. AppDomain^ domain = AppDomain::CurrentDomain;
String^ myPath = Path::Combine(domain->DynamicDirectory, "Company1.dll");
Assembly^ assm = AppDomain::CurrentDomain::Load(myPath);
- D. AppDomain^ domain = AppDomain::CurrentDomain;
Assembly^ assm = domain->GetData("Company1.dll");

Answer: A

Question: 332

You are developing a class library. Portions of your code need to access system environment variables.

You need to force a runtime SecurityException only when callers that are higher in the call stack do not have the necessary permissions.

Which call method should you use?

- A. Set->Demand();
- B. Set->Assert();
- C. Set->PermitOnly();
- D. Set->Deny();

Answer: A

Question: 333

You are writing a custom dictionary. The custom-dictionary class is named MyDictionary. You need to ensure that the dictionary is type safe.

Which code segment should you use?

- A. class MyDictionary : Dictionary<string, string>
- B. class MyDictionary : HashTable
- C. class MyDictionary : IDictionary
- D. class MyDictionary { ... }
Dictionary<string, string> t = new Dictionary<string, string>();

MyDictionary dictionary = (MyDictionary)t;

Answer: A

Question: 334

You are developing a method to hash data with the Secure Hash Algorithm. The data is passed to your method as a byte array named message. You need to compute the hash of the incoming parameter by using SHA1. You also need to place the result into a byte array named hash. Which code segment should you use?

A. SHA1 ^sha = gcnew SHA1CryptoServiceProvider();
array<Byte>^hash = nullptr;
sha->TransformBlock(message, 0, message->Length, hash, 0);
B. SHA1 ^sha = gcnew SHA1CryptoServiceProvider();
array<Byte>^hash = BitConverter::GetBytes(sha->GetHashCode());
C. SHA1 ^sha = gcnew SHA1CryptoServiceProvider();
array<Byte>^hash = sha->ComputeHash(message);

D. SHA1 ^sha = gcnew SHA1CryptoServiceProvider();
sha->GetHashCode();
array<Byte>^hash = sha->Hash;

Answer: C

Question: 335

You are writing an application that uses SOAP to exchange data with other applications. You use a Department class that inherits from ArrayList to send objects to another application. The Department object is named dept. You need to ensure that the application serializes the Department object for transport by using SOAP. Which code should you use?

A. SoapFormatter^ formatter = gcnew SoapFormatter();
array<Byte>^ buffer = gcnew array<Byte>(dept->Capacity);
MemoryStream^ stream = gcnew MemoryStream(buffer);
for each (Object^ o in dept) {
formatter->Serialize(stream, o);
}
B. SoapFormatter^ formatter = gcnew SoapFormatter();
array<Byte>^ buffer = gcnew array<Byte>(dept->Capacity);
MemoryStream^ stream = gcnew MemoryStream(buffer);
formatter->Serialize(stream, dept);
C. SoapFormatter^ formatter = gcnew SoapFormatter();
MemoryStream^ stream = gcnew MemoryStream();
for each (Object^ o in dept) {
formatter->Serialize(stream, o);
}
D. SoapFormatter^ formatter = gcnew SoapFormatter();
MemoryStream^ stream = gcnew MemoryStream();
formatter->Serialize(stream, dept);

Answer: D

Question: 336

You are developing an application that will use custom authentication and role-based security.

You need to write a code segment to make the runtime assign an unauthenticated principal object to each running thread.

Which code segment should you use?

- A. `AppDomain^ domain = AppDomain::CurrentDomain;`
`domain->SetPrincipalPolicy(PrincipalPolicy::WindowsPrincipal);`
- B. `AppDomain^ domain = AppDomain::CurrentDomain;`
`domain->SetThreadPrincipal(gcnew WindowsPrincipal(nullptr));`
- C. `AppDomain^ domain = AppDomain::CurrentDomain;`
`domain->SetAppDomainPolicy(PolicyLevel::CreateAppDomainLevel());`
- D. `AppDomain^ domain = AppDomain::CurrentDomain;`
`domain->SetPrincipalPolicy(PrincipalPolicy::UnauthenticatedPrincipal);`

Answer: D

Question: 337

You write the following code. `public delegate void FaxDocs(Object^ sender, FaxArgs^ args);`

You need to create an event that will invoke FaxDocs. Which code segment should you use?

- A. `public : static event FaxDocs^ Fax;`
- B. `public : static event Fax^ FaxDocs;`
- C. `public ref class FaxArgs : public EventArgs { public : String^ CoverPageInfo;`
`FaxArgs (String^ coverInfo) { this->CoverPageInfo = coverInfo; };`
- D. `public ref class FaxArgs : public EventArgs { public : String^ CoverPageInfo; };`

Answer: A

Question: 338

You need to write a code segment that transfers the contents of a byte array named `dataToSend` by using a `NetworkStream` object named `netStream`. You need to use a cache of size 8,192 bytes. Which code segment should you use?

- A. `MemoryStream^ memStream = gcnew MemoryStream(8192);`
`memStream->Write(dataToSend, 0, (int) netStream->Length);`
- B. `MemoryStream^ memStream = gcnew MemoryStream(8192);`
`netStream->Write(dataToSend, 0, (int) memStream->Length);`
- C. `BufferedStream^ bufStream = gcnew BufferedStream(netStream, 8192);`
`bufStream->Write(dataToSend, 0, dataToSend->Length);`
- D. `BufferedStream^ bufStream = gcnew BufferedStream(netStream);`
`bufStream->Write(dataToSend, 0, 8192);`

Answer: C

Question: 339

You create a class library that contains the class hierarchy defined in the following code segment. (Line numbers are included for reference only.)

- 01. `public ref class Employee {`
- 02.
- 03.
- 04. `public :`
- 05. `String^ Name;`
- 06. `};`

```

06.
07. public ref class Manager : public Employee {
08.
09. public :
10. int Level;
11. };
12.
13. public ref class Group {
14.
15. public :
16. array<Employee^>^ Employees;
17. };

```

You create an instance of the Group class. You populate the fields of the instance. When you attempt to serialize the instance by using the Serialize method of the XmlSerializer class, you receive InvalidOperationException. You also receive the following error message: "There was an error generating the XML document."

You need to modify the code segment so that you can successfully serialize instances of the Group class by using the XmlSerializer class. You also need to ensure that the XML output contains an element for all public fields in the class hierarchy. What should you do?

A. Insert the following code between lines 14 and 15 of the code segment:

```

[XmlArrayItem(Type = __typeof(Employee))]
[XmlArrayItem(Type = __typeof(Manager))]

```

B. Insert the following code between lines 14 and 15 of the code segment:

```

[XmlElement(Type = __typeof(Employees))]

```

C. Insert the following code between lines 14 and 15 of the code segment:

```

[XmlArray(ElementName="Employees")]

```

D. Insert the following code between lines 3 and 4 of the code segment:

```

[XmlElement(Type = __typeof(Employee))]

```

and insert the following code segment between lines 8 and 9 of the code segment:

```

[XmlElement(Type = __typeof(Manager))]

```

Answer: A

Question: 340

You are creating a class that performs complex financial calculations. The class contains a method named GetCurrentRate that retrieves the current interest rate and a variable named currRate that stores the current interest rate.

You write serialized representations of the class.

You need to write a code segment that updates the currRate variable with the current interest rate when an instance of the class is deserialized. Which code segment should you use?

A. [OnSerializing]void UpdateValue (StreamingContext^ context) {

```

currRate = GetCurrentRate();

```

```

}

```

B. [OnSerializing]void UpdateValue(SerializationInfo^ info) {

```

info->AddValue("currentRate", GetCurrentRate());

```

```

}

```

C. [OnDeserializing]void UpdateValue(SerializationInfo^ info) {

```

info->AddValue("currentRate", GetCurrentRate());

```

```

}

```

D. [OnDeserialized]void UpdateValue(StreamingContext^ context) {

```

currRate = GetCurrentRate();

```

```
}
```

Answer: D

Question: 341

You are developing a fiscal report for a customer. Your customer has a main office in the United States and a satellite office in Mexico.

You need to ensure that when users in the satellite office generate the report, the current date is displayed in Mexican Spanish format. Which code segment should you use?

- A. `CultureInfo^ culture = gcnew CultureInfo("es-MX", false);
DateTimeFormatInfo^ dtfi = culture->DateTimeFormat;
DateTime^ dt = gcnew DateTime(DateTime::Today::Year, DateTime::Today::Month,
DateTime::Today::Day);
String^ dateString = dt->ToString(dtfi->LongDatePattern);`
- B. `Calendar^ cal = gcnew CultureInfo("es-MX", false)::Calendar;
DateTime^ dt = gcnew DateTime(DateTime::Today::Year, DateTime::Today::Month,
DateTime::Today::Day);
String^ dateString = dt->ToString();`
- C. `String^ dateString =
DateTimeFormatInfo::CurrentInfo::GetMonthName(DateTime::Today::Month);`
- D. `String^ dateString = DateTime::Today::Month::ToString("es-MX");`

Answer: A

Question: 342

You create an application that stores information about your customers who reside in various regions. You are developing internal utilities for this application.

You need to gather regional information about your customers in Canada.

Which code segment should you use?

- A. `for each (CultureInfo^ culture in CultureInfo::GetCultures(CultureTypes::SpecificCultures)) {
// Output the region information...}`
- B. `CultureInfo^ cultureInfo = gcnew CultureInfo("CA");
// Output the region information...`
- C. `RegionInfo^ regionInfo = gcnew RegionInfo("CA");
// Output the region information...`
- D. `RegionInfo^ regionInfo = gcnew RegionInfo("");
if (regionInfo->Name == "CA") { // Output the region information...}`

Answer: C

Question: 343

You need to generate a report that lists language codes and region codes.

Which code segment should you use?

- A. `for each (CultureInfo^ culture in CultureInfo::GetCultures(CultureTypes::SpecificCultures)) {
// Output the culture information...}`
- B. `CultureInfo^ culture = gcnew CultureInfo("");
CultureTypes^ types = culture->CultureTypes;
// Output the culture information...`
- C. `for each (CultureInfo^ culture in CultureInfo::GetCultures(CultureTypes::NeutralCultures)) {
// Output the culture information...}`
- D. `for each (CultureInfo^ culture in
CultureInfo::GetCultures(CultureTypes::ReplacementCultures)) {`

```
// Output the culture information...}
```

Answer: A

Question: 344

You write the following code to call a function from the Win32 Application Programming Interface (API) by using platform invoke.

```
int rc = MessageBox(hWnd, text, caption, type);
```

You need to define a method prototype. Which code segment should you use?

- A. `[DllImport("user32")]extern int MessageBox(int hWnd, String^ text, String^ caption, uint type);`
- B. `[DllImport("user32")]extern int MessageBoxA(int hWnd, String^ text, String^ caption, uint type);`
- C. `[DllImport("user32")]extern int Win32API_User32_MessageBox(int hWnd, String^ text, String^ caption, uint type);`
- D. `[DllImport("C:\\WINDOWS\\system32\\user32.dll")]extern int MessageBox(int hWnd, String^ text, String^ caption, uint type);`

Answer: A

Question: 345

You develop a service application named PollingService that periodically calls long-running procedures. These procedures are called from the DoWork method.

You use the following service application code.

```
ref class PollingService : public ServiceBase {  
public :  
static bool blnExit = false;  
protected :  
override void OnStart(String^ args) {  
do {  
DoWork();  
} while (!blnExit);  
}  
override void OnStop() {  
blnExit = true;  
}  
private :  
void DoWork() {} };
```

When you attempt to start the service, you receive the following error message: Could not start the PollingService service on the local computer. Error 1053: The service did not respond to the start or control request in a timely fashion. You need to modify the service application code so that the service starts properly. What should you do?

- A. Move the loop code into the constructor of the service class from the OnStart method.
- B. Drag a timer component onto the design surface of the service. Move the calls to the longrunning procedure from the OnStart method into the Tick event procedure of the timer, set the Enabled property of the timer to True, and call the Start method of the timer in the OnStart method.
- C. Add a class-level System.Timers.Timer variable to the service class code. Move the call to the DoWork method into the Elapsed event procedure of the timer, set the Enabled property of the timer to True, and call the Start method of the timer in the OnStart method.
- D. Move the loop code from the OnStart method into the DoWork method.

Answer: C

Question: 346

You are creating a class to compare a specially-formatted string. The default collation comparisons do not apply. You need to implement the `IComparable<string>` interface. Which code segment should you use?

- A.

```
public ref class Person : public IComparable<String^>{  
public : virtual Int32 CompareTo(String^ other){  
}}  
}
```
- B.

```
public ref class Person : public IComparable<String^>{  
public : virtual Int32 CompareTo(Object^ other){  
}}  
}
```
- C.

```
public ref class Person : public IComparable<String^>{  
public : virtual Boolean CompareTo(String^ other){  
}}  
}
```
- D.

```
public ref class Person : public IComparable<String^>{  
public : virtual Boolean CompareTo(Object^ other){  
}}  
}
```

Answer: A

Question: 347

You need to read the entire contents of a file named `Message.txt` into a single string variable. Which code segment should you use?

- A.

```
String^ result = nullptr;  
StreamReader^ reader = gcnew StreamReader("Message.txt");  
result = reader->Read().ToString();
```
- B.

```
String^ result = nullptr;  
StreamReader^ reader = gcnew StreamReader("Message.txt");  
result = reader->ReadToEnd();
```
- C.

```
String^ result = String::Empty;  
StreamReader^ reader = gcnew StreamReader("Message.txt");  
while (!reader->EndOfStream) {  
    result += reader->ToString();  
}
```
- D.

```
String^ result = nullptr;  
StreamReader^ reader = gcnew StreamReader("Message.txt");  
result = reader->ReadLine();
```

Answer: B

Question: 348

You need to return the contents of an isolated storage file as a string. The file is machine-scoped and is named `Settings.dat`. Which code segment should you use?

- A.

```
IsolatedStorageFileStream^ isoStream;  
isoStream = gcnew IsolatedStorageFileStream(  
    "Settings.dat", FileMode::Open);  
String^ result = (gcnew StreamReader(isoStream))->ReadToEnd();
```
- B.

```
IsolatedStorageFile^ isoFile;  
isoFile = IsolatedStorageFile::GetMachineStoreForAssembly();  
IsolatedStorageFileStream^ isoStream;  
isoStream = gcnew IsolatedStorageFileStream(  
    "Settings.dat", FileMode::Open, isoFile);  
String^ result = (gcnew StreamReader(isoStream))->ReadToEnd();
```
- C.

```
IsolatedStorageFileStream^ isoStream;
```

```
isoStream = gcnew IsolatedStorageFileStream(
"Settings.dat", FileMode::Open);
String^ result = isoStream->ToString();
D. IsolatedStorageFile^ isoFile;
isoFile = IsolatedStorageFile::GetMachineStoreForAssembly();
IsolatedStorageFileStream^ isoStream;
isoStream = gcnew IsolatedStorageFileStream(
"Settings.dat", FileMode::Open, isoFile);
String^ result = isoStream->ToString();
```

Answer: B

Question: 349

You need to write a code segment that transfers the first 80 bytes from a stream variable named stream1 into a new byte array named byteArray. You also need to ensure that the code segment assigns the number of bytes that are transferred to an integer variable named bytesTransferred. Which code segment should you use?

- A. bytesTransferred = stream1->Read(byteArray, 0, 80);
- B. for (int i = 0; i < 80; i++) { stream1->WriteByte(byteArray[i]); bytesTransferred = i; if (!stream1->CanWrite) { break; } }
- C. while (bytesTransferred < 80) { stream1->Seek(1, SeekOrigin::Current); byteArray[bytesTransferred++] = Convert::ToByte(stream1->ReadByte()); }
- D. stream1->Write(byteArray, 0, 80); bytesTransferred = byteArray->Length;

Answer: A

Question: 350

You need to create a class definition that is interoperable along with COM. You need to ensure that COM applications can create instances of the class and can call the GetAddress method. Which code segment should you use?

- A. public ref class Customer { string addressString; public: Customer(string address) : addressString(address) { } String^ GetAddress() { return addressString; } }
- B. public ref class Customer { static string addressString; public: Customer() { } static String^ GetAddress() { return addressString; } }
- C. public ref class Customer { string addressString;

```

public: Customer() { }
String^ GetAddress() { return addressString;
}}
D. public ref class Customer {
string addressString;
public:
Customer() { }private:
String^ GetAddress() { return addressString;
}}

```

Answer: C

Question: 351

You create a class library that is used by applications in three departments of Company.com. The library contains a Department class with the following definition.

```

public ref class Department {
public :
String^ name;
String^ manager;
};

```

Each application uses a custom configuration section to store department-specific values in the application configuration file as shown in the following code.

```

<Department>
<name>Hardware</name>
<manager>Company</manager>
</Department>

```

You need to write a code segment that creates a Department object instance by using the field values retrieved from the application configuration file. Which code segment should you use?

- A. public ref class deptElement : public ConfigurationElement {
protected :
override void DeserializeElement(XmlReader^ reader,
bool^ serializeCollectionKey) {
Department^ dept = gcnew Department();
dept->name = ConfigurationManager::AppSettings["name"];
dept->manager = ConfigurationManager::AppSettings["manager"];
return dept;
}};
- B. public ref class deptElement : public ConfigurationElement {
protected :
override void DeserializeElement(XmlReader^ reader,
bool^ serializeCollectionKey) {
Department^ dept = gcnew Department();
dept->name = reader->GetAttribute("name");
dept->manager = reader->GetAttribute("manager");
}};
- C. public ref class deptHandler :
public IConfigurationSectionHandler {
public :
Object^ Create(Object^ parent, Object^ configContext,
System.Xml.XmlNode section) {
Department^ dept = gcnew Department();
dept->name = section->SelectSingleNode("name")->InnerText;
dept->manager = section->SelectSingleNode("manager")->InnerText;
return dept;
}};
- D. public ref class deptHandler : public IConfigurationSectionHandler {

```

public :
Object^ Create(Object^ parent, Object^ configContext,
System.Xml.XmlNode^ section) {
Department^ dept = gnew Department();
dept->name = section->Attributes["name"].Value;
dept->manager = section->Attributes["manager"].Value;
return dept;
}};

```

Answer: C

Question: 352

You are writing an application that uses isolated storage to store user preferences. The application uses multiple assemblies. Multiple users will use this application on the same computer. You need to create a directory named Preferences in the isolated storage area that is scoped to the current Microsoft Windows identity and assembly. Which code segment should you use?

- A. IsolatedStorageFile^ store;
store = IsolatedStorageFile::GetUserStoreForAssembly();
store->CreateDirectory("Preferences");
- B. IsolatedStorageFile^ store;
store = IsolatedStorageFile::GetMachineStoreForAssembly();
store->CreateDirectory("Preferences");
- C. IsolatedStorageFile^ store;
store = IsolatedStorageFile::GetUserStoreForDomain();
store->CreateDirectory("Preferences");
- D. IsolatedStorageFile^ store;
store = IsolatedStorageFile::GetMachineStoreForApplication();
store->CreateDirectory("Preferences");

Answer: A

Question: 353

You are using the Microsoft Visual Studio 2005 IDE to examine the output of a method that returns a string. You assign the output of the method to a string variable named fName. You need to write a code segment that prints the following on a single line
The message: "Test Failed: " The value of fName if the value of fName does not equal "Company" You also need to ensure that the code segment simultaneously facilitates uninterrupted execution of the application. Which code segment should you use?

- A. Debug::Assert(fName == "Company", "Test Failed: ", fName);
- B. Debug::WriteLineIf(fName != "Company", fName, "Test Failed");
- C. if (fName != "Company") {
Debug::Print("Test Failed: ");
Debug::Print(fName);
}
- D. if (fName != "Company") {
Debug::WriteLine("Test Failed: ");
Debug::WriteLine(fName);
}

Answer: B

Question: 354

You are developing a method that searches a string for a substring. The method will be localized to Italy.

Your method accepts the following parameters: The string to be searched, which is named searchList The string for which to search, which is named searchValue You need to write the code. Which code segment should you use?

```
A. return searchList->IndexOf(searchValue);
B. CompareInfo^ comparer = gcnew CultureInfo("it-IT")::CompareInfo;
return comparer->Compare(searchList, searchValue);
C. CultureInfo^ comparer = gcnew CultureInfo("it-IT");
if (searchList->IndexOf(searchValue)
> 0) {
return true;
} else {
return false;
}
D. CompareInfo^ comparer =
gcnew CultureInfo("it-IT")::CompareInfo;
if (comparer->IndexOf(searchList,
searchValue) > 0) {
return true;
} else {
return false;
}
```

Answer: D

Question: 355

You need to write a code segment that will create a common language runtime (CLR) unit of isolation within an application. Which code segment should you use?

```
A. AppDomainSetup^ mySetup =
AppDomain::CurrentDomain::SetupInformation;
mySetup->ShadowCopyFiles = "true";
B. System::Diagnostics::Process^ myProcess;
myProcess = gcnew System::Diagnostics::Process();
C. AppDomain^ domain;
domain = AppDomain::CreateDomain("CompanyDomain");
D. System::ComponentModel::Component^ myComponent;
myComponent = gcnew System::ComponentModel::Component();
```

Answer: C

Question: 356

You create an application to send a message by e-mail. An SMTP server is available on the local subnet. The SMTP server is named smtp.Company.com.

To test the application, you use a source address, me@Company.com, and a target address, you@Company.com.

You need to transmit the e-mail message. Which code segment should you use?

```
A. MailAddress addrFrom("me@Company.com", "Me");
MailAddress addrTo("you@Company.com", "You");
MailMessage message(%addrFrom, %addrTo);
message.Subject = "Greetings!";
message.Body = "Test";
message.Dispose();
```

```

B. String^ strSmtpClient = "smtp.Company.com";
String^ strFrom = "me@Company.com";
String^ strTo = "you@Company.com";
String^ strSubject = "Greetings!";
String^ strBody = "Test";
MailMessage msg(strFrom, strTo, strSubject, strSmtpClient);
C. MailAddress addrFrom("me@Company.com");
MailAddress addrTo("you@Company.com");
MailMessage message(%addrFrom, %addrTo);
message.Subject = "Greetings!";
message.Body = "Test";
SmtpClient client("smtp.Company.com");
client.Send(%message);
D. MailAddress^ addrFrom =
gcnew MailAddress("me@Company.com", "Me");
MailAddress^ addrTo = gcnew MailAddress("you@Company.com", "You");
MailMessage^ message = gcnew MailMessage(addrFrom, addrTo);
message->Subject = "Greetings!";
message->Body = "Test";
SocketInformation info;
Socket^ client = gcnew Socket(info);
System::Text::ASCIIEncoding^ enc = gcnew System::Text::ASCIIEncoding();
array<unsigned char>^ msgBytes = enc->GetBytes(message->ToString());
client->Send(msgBytes);

```

Answer: C

Question: 357

You write the following code segment to call a function from the Win32 Application Programming Interface (API) by using platform invoke.

```

String^ personName = "N?e!";
String^ msg = "Welcome " + personName + " to club "!";
bool rc = User32API::MessageBox(0, msg, personName, 0);

```

You need to define a method prototype that can best marshal the string data. Which code segment should you use?

- A. [DllImport("user32", CharSet = CharSet::Ansi)]extern bool MessageBox(int hWnd, String^ text, String^ caption, unsigned int type);
- B. [DllImport("user32", EntryPoint = "MessageBoxA", CharSet = CharSet::Ansi)]extern bool MessageBox(int hWnd, [MarshalAs(UnmanagedType::LPWStr)]String^ text, [MarshalAs(UnmanagedType::LPWStr)]String^ caption, unsigned int type);
- C. [DllImport("user32", CharSet = CharSet::Unicode)]extern bool MessageBox(int hWnd, String^ text, String^ caption, unsigned int type);
- D. [DllImport("user32", EntryPoint = "MessageBoxA", CharSet = CharSet::Unicode)]extern bool MessageBox(int hWnd, [MarshalAs(UnmanagedType::LPWStr)]String^ text,

```
[MarshalAs(UnmanagedType.LPWStr)]String^ caption,
unsigned int type);
}
```

Answer: C

Question: 358

You are creating an application that retrieves values from a custom section of the application configuration file.

The custom section uses XML as shown in the following block.

```
<ProjectSection name="ProjectCompany">
<role name="administrator" />
<role name="manager" />
<role name="support" />
</ProjectSection>
```

You need to write a code segment to define a class named Role. You need to ensure that the Role class is initialized with values that are retrieved from the custom section of the configuration file. Which code segment should you use?

```
A. public ref class Role : public ConfigurationElement {
protected :
static String^ _ElementName = "name";
public :
[ConfigurationProperty("role")]
property String^ Name {
String^ get () {return ((String^)base["role"]);}
}
};
```

```
B. public ref class Role : public ConfigurationElement {
protected :
static String^ _ElementName = "role";
public :
[ConfigurationProperty("name", IsRequired = true)]
property String^ Name {
String^ get () {return ((String^)base["name"]);}
}
};
```

```
C. public ref class Role : public ConfigurationElement {
private :
String^ _name;
protected :
static String^ _ElementName = "role";
public :
[ConfigurationProperty("name")]
property String^ Name {
String^ get () {return _name;}
}
};
```

```
D. public ref class Role : public ConfigurationElement {
private :
String^ _name;
protected :
static String^ _ElementName = "name";
public :
[ConfigurationProperty("role", IsRequired = true)]
property String^ Name {
```

```
String^ get () {return _name;
}
}};
```

Answer: B

Question: 359

You are testing a component that serializes the Meeting class instances so that they can be saved to the file system. The Meeting class has the following definition:

```
public ref class Meeting {
private :
String^ title;
public :
int roomNumber;
array<String^>^ invitees;
Meeting(){}
Meeting(String^ t){
title = t;
} };
```

The component contains a procedure with the following code segment.

```
Meeting^ myMeeting = gcnew Meeting("Goals");
myMeeting->roomNumber=1100;
array<String^>^ attendees = gcnew array<String^>(2)
```

```
{ "Company", "Mary" };
myMeeting->invitees = attendees;
XmlSerializer^ xs = gcnew XmlSerializer(__typeof(Meeting));
StreamWriter^ writer = gcnew StreamWriter("C:\\Meeting.xml");
xs->Serialize(writer, myMeeting);
writer->Close();
```

You need to identify the XML block that is written to the C:\\Meeting.xml file as a result of running this procedure. Which XML block represents the content that will be written to the C:\\Meeting.xml file?

A. <?xml version="1.0" encoding="utf-8"?>
<Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<title>Goals</title>
<roomNumber>1100</roomNumber>
<invitee>Company</invitee>
<invitee>Mary</invitee>
</Meeting>

B. <?xml version="1.0" encoding="utf-8"?>
<Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<roomNumber>1100</roomNumber>
<invitees>
<string>Company</string>
<string>Mary</string>
</invitees>
</Meeting>

C. <?xml version="1.0" encoding="utf-8"?>
<Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
title="Goals">
<roomNumber>1100</roomNumber>
<invitees>

```

<string>Company</string>
<string>Mary</string>
</invitees>
</Meeting>
D. <?xml version="1.0" encoding="utf-8"?>
<Meeting xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<roomNumber>1100</roomNumber>
<invitees>
<string>Company</string>
</invitees>
<invitees>
<string>Mary</string>
</invitees>
</Meeting>

```

Answer: B

Question: 360

You need to serialize an object of type List<int> in a binary format. The object is named data.

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Which code segment should you use?

```

A. BinaryFormatter^ formatter = gcnew BinaryFormatter();
MemoryStream^ stream = gcnew MemoryStream();
formatter->Serialize(stream, data);
B. BinaryFormatter^ formatter = gcnew BinaryFormatter();
MemoryStream^ stream = gcnew MemoryStream();
for (int i = 0;
i < data->Count;
i++) {
formatter->Serialize(stream, data[i]);
}
C. BinaryFormatter^ formatter = gcnew BinaryFormatter();
array<Byte>^ buffer = gcnew array<Byte>(data->Count);
MemoryStream^ stream = gcnew MemoryStream(buffer, true);
formatter->Serialize(stream, data);
D. BinaryFormatter^ formatter = gcnew BinaryFormatter();
MemoryStream^ stream = gcnew MemoryStream();
Capture c(formatter,stream);
data->ForEach(gcnew Action<int>(%c,&Capture::Action));

```

Answer: A

Question: 361

You develop a service application named PollingService that periodically calls long-running procedures. These procedures are called from the DoWork method.

You use the following service application code:

```

partial class PollingService : ServiceBase {
bool blnExit = false;
public PollingService() {}
protected override void OnStart(string[] args) {
do {

```

```

DoWork();
} while (!blnExit);
}
protected override void OnStop() {
blnExit = true;
}
private void DoWork() {
...
}}

```

When you attempt to start the service, you receive the following error message: Could not start the PollingService service on the local computer. Error 1053: The service did not respond to the start or control request in a timely fashion. You need to modify the service application code so that the service starts properly.

What should you do?

- A. Move the loop code into the constructor of the service class from the OnStart method.
- B. Drag a timer component onto the design surface of the service. Move the calls to the longrunning procedure from the OnStart method into the Tick event procedure of the timer, set the Enabled property of the timer to True, and call the Start method of the timer in the OnStart method.
- C. Add a class-level System.Timers.Timer variable to the service class code. Move the call to the DoWork method into the Elapsed event procedure of the timer, set the Enabled property of the timer to True, and call the Start method of the timer in the OnStart method.
- D. Move the loop code from the OnStart method into the DoWork method.

Answer: C

Question: 362

You are developing an application to perform mathematical calculations. You develop a class named CalculationValues. You write a procedure named PerformCalculation that operates on an instance of the class. You need to ensure that the user interface of the application continues to respond while calculations are being performed. You need to write a code segment that calls the PerformCalculation procedure to achieve this goal.

Which code segment should you use?

- A.

```
public ref class CalculationValues {};
```



```
public ref class Calculator {
```



```
public :
```



```
void PerformCalculation() {};
```



```
public ref class ThreadTest{
```



```
private :
```



```
void DoWork (){
```



```
CalculationValues^ myValues = gcnew CalculationValues();
```



```
Calculator ^ calc = gcnew Calculator();
```



```
Thread^ newThread = gcnew Thread(
```



```
gcnew ThreadStart(calc, &Calculator::PerformCalculation));
```



```
newThread->Start(myValues);
```



```
}};
```
- B.

```
public ref class CalculationValues {};
```



```
public ref class Calculator {
```



```
public :void PerformCalculation() {};
```



```
public ref class ThreadTest{
```



```
private :
```

```

void DoWork (){
    CalculationValues^ myValues = gnew CalculationValues();
    Calculator ^ calc = gnew Calculator();
    ThreadStart^ delStart = gnew
    ThreadStart(calc, &Calculator::PerformCalculation);
    Thread^ newThread = gnew Thread(delStart);
    if (newThread->IsAlive) {
        newThread->Start(myValues);
    }
};
C. public ref class CalculationValues {};
public ref class Calculator {
public :
    void PerformCalculation(CalculationValues^ values) {};
public ref class ThreadTest{
private :

```

```

void DoWork (){
    CalculationValues^ myValues = gnew CalculationValues();
    Calculator ^ calc = gnew Calculator();
    Application::DoEvents();
    calc->PerformCalculation(myValues);
    Application::DoEvents();
};
D. public ref class CalculationValues {};
public ref class Calculator {
public :
    void PerformCalculation(Object^ values) {};
public ref class ThreadTest{
private :
    void DoWork (){
        CalculationValues^ myValues = gnew CalculationValues();
        Calculator ^ calc = gnew Calculator();
        Thread^ newThread = gnew Thread(
        gnew ParameterizedThreadStart(calc,
        &Calculator::PerformCalculation));
        newThread->Start(myValues);
    };
};

```

Answer: D

Question: 363

You are testing a newly developed method named PersistToDB. This method accepts a parameter of type EventLogEntry. This method does not return a value. You need to create a code segment that helps you to test the method. The code segment must read entries from the application log of local computers and then pass the entries on to the PersistToDB method. The code block must pass only events of type Error or Warning from the source MySource to the PersistToDB method. Which code segment should you use?

```

A. EventLog^ myLog = gnew EventLog("Application", ".");
for each (EventLogEntry^ entry in myLog->Entries) {
    if (entry->Source == "MySource") {
        PersistToDB(entry);
    }
}

```

```

}}
B. EventLog^ myLog = gcnew EventLog("Application", ".");
myLog->Source = "MySource";
for each (EventLogEntry^ entry in myLog->Entries) {
if (entry->EntryType == (EventLogEntryType::Error &
EventLogEntryType::Warning)) {
PersistToDB(entry);
}
}
C. EventLog^ myLog = gcnew EventLog("Application", ".");
for each (EventLogEntry^ entry in myLog->Entries) {
if (entry->Source == "MySource") {
if (entry->EntryType == EventLogEntryType::Error ||
entry->EntryType == EventLogEntryType::Warning) {
PersistToDB(entry);
}
}
}
D. EventLog^ myLog = gcnew EventLog("Application", ".");
myLog->Source = "MySource";

```

```

for each (EventLogEntry^ entry in myLog->Entries) {
if (entry->EntryType == EventLogEntryType::Error ||
entry->EntryType == EventLogEntryType::Warning) {
PersistToDB(entry);
}
}

```

Answer: C

Question: 364

You are developing a method to decrypt data that was encrypted with the Triple DES Algorithm. The method accepts the following parameters: The byte array to be decrypted, which is named cipherMessageThe key, which is named keyAn initialization vector, which is named iv You need to decrypt the message by using the TripleDES class and place the result in a string. Which code segment should you use?

```

A. TripleDES ^des = gcnew TripleDESCryptoServiceProvider();
des->BlockSize = cipherMessage->Length;
ICryptoTransform ^crypto = des->CreateDecryptor(key, iv);
MemoryStream ^cipherStream = gcnew MemoryStream(cipherMessage);
CryptoStream ^cryptoStream = gcnew CryptoStream(cipherStream, crypto,
CryptoStreamMode::Read);
String^ message;
StreamReader ^sReader= gcnew StreamReader(cryptoStream);
message = sReader->ReadToEnd();
B. TripleDES^ des = gcnew TripleDESCryptoServiceProvider();
des->FeedbackSize = cipherMessage->Length;
ICryptoTransform^ crypto = des->CreateDecryptor(key, iv);
MemoryStream^ cipherStream = gcnew MemoryStream(cipherMessage);
CryptoStream^ cryptoStream = gcnew CryptoStream(cipherStream, crypto,
CryptoStreamMode::Read);
String ^message;
StreamReader ^sReader= gcnew StreamReader(cryptoStream);
message = sReader->ReadToEnd();
C. TripleDES^ des = gcnew TripleDESCryptoServiceProvider();

```

```

ICryptoTransform^ crypto = des->CreateDecryptor();
MemoryStream^ cipherStream = gcnew MemoryStream(cipherMessage);
CryptoStream^ cryptoStream = gcnew CryptoStream(cipherStream, crypto,
CryptoStreamMode::Read);
String ^message;
StreamReader ^sReader= gcnew StreamReader(cryptoStream);
message = sReader->ReadToEnd();
D. TripleDES^ des = gcnew TripleDESCryptoServiceProvider();
ICryptoTransform^ crypto = des->CreateDecryptor(key, iv);
MemoryStream^ cipherStream = gcnew MemoryStream(cipherMessage);
CryptoStream^ cryptoStream = gcnew CryptoStream( cipherStream, crypto,
CryptoStreamMode::Read);
String ^message;
StreamReader ^sReader= gcnew StreamReader(cryptoStream);
message = sReader->ReadToEnd();

```

Answer: D

Question: 365

You are creating an application that lists processes on remote computers. The application requires a method that performs the following tasks: Accept the remote computer name as a string parameter named strComputer. Return an ArrayList object that contains the names of all processes that are running on that computer. You need to write a code segment that retrieves the name of each process that is running on the remote computer and adds the name to the ArrayList object. Which code segment should you use?

```

A. ArrayList^ al = gcnew ArrayList();
array<Process^> procs = Process::GetProcessesByName(strComputer);
for each (Process^ proc in procs) {
al->Add(proc);
}
B. ArrayList^ al = gcnew ArrayList();
array<Process^> procs = Process::GetProcesses(strComputer);
for each (Process^ proc in procs) {
al->Add(proc);
}
C. ArrayList^ al = gcnew ArrayList();
array<Process^> procs = Process::GetProcessesByName(strComputer);
for each (Process^ proc in procs) {
al->Add(proc->ProcessName);
}
D. ArrayList^ al = gcnew ArrayList();
array<Process^> procs = Process::GetProcesses(strComputer);
for each (Process^ proc in procs) {
al->Add(proc->ProcessName);
}

```

Answer: D

Question: 366

You are creating an application that retrieves values from a custom section of the application configuration file.

The custom section uses XML as shown in the following block.

```
<ProjectSection name="ProjectCompany">
<role name="administrator" />
<role name="manager" />
<role name="support" />
</ProjectSection>
```

You need to write a code segment to define a class named Role. You need to ensure that the Role class is initialized with values that are retrieved from the custom section of the configuration file. Which code segment should you use?

- A. `public class Role : ConfigurationElement {
internal string _ElementName = "name";
[ConfigurationProperty("role")]
public string Name {
get {
return ((string)base["role"]);
}}
}`
- B. `public class Role : ConfigurationElement {
internal string _ElementName = "role";
[ConfigurationProperty("name", RequiredValue = true)]
public string Name {
get {
return ((string)base["name"]);
}}
}`
- C. `public class Role : ConfigurationElement {
internal string _ElementName = "role";
private string _name;
[ConfigurationProperty("name")]
public string Name {
get {
return _name;
}}
}`
- D. `public class Role : ConfigurationElement {
internal string _ElementName = "name";
private string _name;
[ConfigurationProperty("role", RequiredValue = true)]
public string Name {
get {
return _name;
}}
}`

Answer: B

Question: 367

You are testing a method that examines a running process. This method returns an ArrayList containing the name and full path of all modules that are loaded by the process. You need to list the modules loaded by a process named C:\TestApps\Process1.exe. Which code segment should you use?

- A. `ArrayList^ ar = gcnew ArrayList();
array<Process^> procs;`

```

ProcessModuleCollection^ modules;
procs = Process::GetProcesses(@"Process1");
if (procs->Length > 0) {
modules = procs[0]->Modules;
for each (ProcessModule^ mod in modules) {
ar->Add(mod->ModuleName);
}}
B. ArrayList^ ar = gcnew ArrayList();
array<Process^> procs;
ProcessModuleCollection^ modules;
procs = Process::GetProcesses(@"C:\TestApps\Process1.exe");
if (procs->Length > 0) {
modules = procs[0]->Modules;
for each (ProcessModule^ mod in modules) {
ar->Add(mod.ModuleName);
}}
C. ArrayList^ ar = gcnew ArrayList();
array<Process^> procs;
ProcessModuleCollection^ modules;
procs = Process::GetProcessesByName(@"Process1");
if (procs->Length > 0) {
modules = procs[0]->Modules;
for each (ProcessModule^ mod in modules) {
ar->Add(mod->FileName);
}}
D. ArrayList^ ar = gcnew ArrayList();
array<Process^> procs;
ProcessModuleCollection^ modules;
procs = Process->GetProcessesByName(
@"C:\TestApps\Process1.exe");
if (procs->Length > 0) {
modules = procs[0]->Modules;
for each (ProcessModule^ mod in modules) {
ar->Add(mod->FileName);
}}

```

Answer: C

Question: 368

You are testing a newly developed method named PersistToDB. This method accepts a parameter of type EventLogEntry. This method does not return a value. You need to create a code segment that helps you to test the method. The code segment must read entries from the application log of local computers and then pass the entries on to the PersistToDB method. The code block must pass only events of type Error or Warning from the source MySource to the PersistToDB method. Which code segment should you use?

```

A. EventLog^ myLog = gcnew EventLog("Application", ".");
for each (EventLogEntry^ entry in myLog->Entries) {
if (entry->Source == "MySource") {
PersistToDB(entry);
}}
B. EventLog^ myLog = gcnew EventLog("Application", ".");
myLog->Source = "MySource";
for each (EventLogEntry^ entry in myLog->Entries) {
if (entry->EntryType == (EventLogEntryType::Error &
EventLogEntryType::Warning)) {

```

```

PersistToDB(entry);
}}
C. EventLog^ myLog = gcnew EventLog("Application", ".");
for each (EventLogEntry^ entry in myLog->Entries) {
if (entry->Source == "MySource") {
if (entry->EntryType == EventLogEntryType::Error ||
entry->EntryType == EventLogEntryType::Warning) {
PersistToDB(entry);
}
}
}}
D. EventLog^ myLog = gcnew EventLog("Application", ".");
myLog->Source = "MySource";
for each (EventLogEntry^ entry in myLog->Entries) {
if (entry->EntryType == EventLogEntryType::Error ||
entry->EntryType == EventLogEntryType::Warning) {
PersistToDB(entry);
}
}

```

Answer: C

Question: 369

You are creating a class named Age.

You need to ensure that the Age class is written such that collections of Age objects can be sorted. Which code segment should you use?

```

A. public ref class Age {
public : Int32 Value;
public : virtual Object CompareTo(Object^ obj) {
if (obj->GetType() == Age::GetType()) {
Age^ _age = (Age^) obj;
return Value.CompareTo(obj);
}
throw gcnew ArgumentException("object not an Age");
}};
B. public ref class Age {
public : Int32 Value;
public : virtual Object CompareTo(Int32^ iValue) {
try {
return Value.CompareTo(iValue);
} catch (Exception^ ex) {
throw gcnew ArgumentException ("object not an Age");
}
}};
C. public ref class Age : public IComparable {
public : Int32 Value;
public : virtual Int32 CompareTo(Object^ obj) {
if (obj->GetType() == Age::GetType()) {
Age^ _age = (Age^) obj;
return Value.CompareTo(_age->Value);
}
throw gcnew ArgumentException("object not an Age");
}};
D. public ref class Age : public IComparable {
public : Int32 Value;
public : virtual Int32 CompareTo(Object^ obj) {
try {

```

```

return Value.CompareTo(((Age^ obj)->Value);
} catch (Exception^ ex) {
return -1;
}
}};

```

Answer: C

Question: 370

You are creating a new security policy for an application domain. You write the following lines of code.

```

PolicyLevel ^policy = PolicyLevel::CreateAppDomainLevel();
PolicyStatement ^noTrustStatement =
gcnew PolicyStatement(
policy->GetNamedPermissionSet("Nothing"));
PolicyStatement ^fullTrustStatement =
gcnew PolicyStatement(
policy->GetNamedPermissionSet("FullTrust"));

```

You need to arrange code groups for the policy so that loaded assemblies default to the Nothing permission set.

If the assembly originates from a trusted zone, the security policy must grant the assembly the FullTrust permission set. Which code segment should you use?

- A. CodeGroup ^group1 = gcnew FirstMatchCodeGroup(
gcnew ZoneMembershipCondition(SecurityZone::Trusted),
fullTrustStatement);
CodeGroup ^group2 = gcnew UnionCodeGroup(
gcnew AllMembershipCondition(),
noTrustStatement);
group1->AddChild(group2);
- B. CodeGroup ^group1 = gcnew FirstMatchCodeGroup(
gcnew AllMembershipCondition(),
noTrustStatement);
CodeGroup ^group2 = gcnew UnionCodeGroup(
gcnew ZoneMembershipCondition(SecurityZone::Trusted),
fullTrustStatement);
group1->AddChild(group2);
- C. CodeGroup ^group = gcnew UnionCodeGroup(
gcnew ZoneMembershipCondition(SecurityZone::Trusted),
fullTrustStatement);
- D. CodeGroup ^group = gcnew FirstMatchCodeGroup(
gcnew AllMembershipCondition(),
noTrustStatement);

Answer: B

Question: 371

You are writing a method that accepts a string parameter named message.

Your method must break the message parameter into individual lines of text and pass each line to a second method named Process.

Which code segment should you use?

- A. StreamReader^ reader = gcnew StreamReader(message);
Process(reader->ReadToEnd());
reader->Close();
- B. StreamReader^ reader = gcnew StreamReader(message);

```

while (reader->Peek() != -1) {
String^ line = reader->Read().ToString();
Process(line);
}
reader->Close();
C. StringReader^ reader = gcnew StringReader(message);
Process(reader->ToString());
reader->Close();
D. StringReader^ reader = gcnew StringReader(message);
while (reader->Peek() != -1) {
Process(reader->ReadLine());
}
reader->Close();

```

Answer: D

Question: 372

You need to create a dynamic assembly named MyAssembly. You also need to save the assembly to disk.

Which code segment should you use?

```

A. AssemblyName^ myAssemblyName = gcnew AssemblyName();
myAssemblyName->Name = "MyAssembly";
AssemblyBuilder^ myAssemblyBuilder =
AppDomain::CurrentDomain->DefineDynamicAssembly(
myAssemblyName, AssemblyBuilderAccess::Run);
myAssemblyBuilder->Save("MyAssembly.dll");
B. AssemblyName^ myAssemblyName = gcnew AssemblyName();
myAssemblyName->Name = "MyAssembly";
AssemblyBuilder^ myAssemblyBuilder =
AppDomain::CurrentDomain->DefineDynamicAssembly(
myAssemblyName, AssemblyBuilderAccess::Save);
myAssemblyBuilder->Save("MyAssembly.dll");
C. AssemblyName^ myAssemblyName = gcnew AssemblyName();
AssemblyBuilder^ myAssemblyBuilder =
AppDomain::CurrentDomain->DefineDynamicAssembly(
myAssemblyName, AssemblyBuilderAccess::RunAndSave);
myAssemblyBuilder->Save("MyAssembly.dll");
D. AssemblyName^ myAssemblyName =
gcnew AssemblyName("MyAssembly");
AssemblyBuilder^ myAssemblyBuilder =
AppDomain::CurrentDomain->DefineDynamicAssembly(
myAssemblyName, AssemblyBuilderAccess::Save);
myAssemblyBuilder->Save("c:\\MyAssembly.dll");

```

Answer: B

Question: 373

You are developing an application to assist the user in conducting electronic surveys. The survey consists of 25 true-or-false questions. You need to perform the following tasks: Initialize each answer to true. Minimize the amount of memory used by each survey. Which storage option should you choose?

```

A. BitVector32^ answers = gcnew BitVector32(1);
B. BitVector32^ answers = gcnew BitVector32(-1);
C. BitArray^ answers = gcnew BitArray (1);
D. BitArray^ answers = gcnew BitArray(-1);

```

Answer: B

Question: 374

You are developing a server application that will transmit sensitive information on a network. You create an X509Certificate object named certificate and a TcpClient object named client. You need to create an SslStream to communicate by using the Transport Layer Security 1.0 protocol. Which code segment should you use?

- A. `SslStream^ ssl = gcnew SslStream(Client->GetStream());
ssl->AuthenticateAsServer(certificate, false, SslProtocols::None, true);`
- B. `SslStream ^ssl = gcnew SslStream(Client->GetStream());
ssl->AuthenticateAsServer(certificate, false, SslProtocols::Ssl3, true);`
- C. `SslStream ^ssl = gcnew SslStream(Client->GetStream());
ssl->AuthenticateAsServer(certificate, false, SslProtocols::Ssl2, true);`
- D. `SslStream ^ssl = gcnew SslStream(Client->GetStream());
ssl->AuthenticateAsServer(certificate, false, SslProtocols::Tls, true);`

Answer: D

Question: 375

You are writing a method that returns an ArrayList named al. You need to ensure that changes to the ArrayList are performed in a thread-safe manner. Which code segment should you use?

- A. `ArrayList^ al = gcnew ArrayList();
lock (al->SyncRoot){
return al;
}`
- B. `ArrayList^ al = gcnew ArrayList();
lock (al->SyncRoot.GetType()){
return al;
}`
- C. `ArrayList^ al = gcnew ArrayList();
Monitor::Enter(al);
Monitor::Exit(al);
return al;`
- D. `ArrayList^ al = gcnew ArrayList();
ArrayList^ sync_al = ArrayList::Synchronized(al);
return sync_al;`

Answer: D

Question: 376

You are changing the security settings of a file named MyData.xml. You need to preserve the existing inherited access rules. You also need to prevent the access rules from inheriting changes in the future. Which code segment should you use?

- A. `FileSecurity^ security = gcnew FileSecurity("mydata.xml",AccessControlSections::All);
security->SetAccessRuleProtection(true, true);
File::SetAccessControl("mydata.xml", security);`
- B. `FileSecurity^ security = gcnew FileSecurity();
security->SetAccessRuleProtection(true, true);
File::SetAccessControl("mydata.xml", security);`
- C. `FileSecurity^ security = File::GetAccessControl("mydata.xml");
security->SetAccessRuleProtection(true, true);`
- D. `FileSecurity^ security = File::GetAccessControl("mydata.xml");`

```
security->SetAuditRuleProtection(true, true);
File::SetAccessControl("mydata.xml", security);
```

Answer: A

Question: 377

You write the following code to implement the CompanyClass.MyMethod function.

```
public class CompanyClass {
public int MyMethod(int arg) {
return arg;
}}
```

You need to call the CompanyClass.MyMethod function dynamically from an unrelated class in your assembly. Which code segment should you use?

- A. CompanyClass^ myClass = gcnew CompanyClass();
Type^ t = CompanyClass::typeid;
MethodInfo^ m = t->GetMethod("MyMethod");
int i =(int)m->Invoke(this, gcnew array<Object^> { 1 });
- B. CompanyClass^ myClass = gcnew CompanyClass();
Type^ t = CompanyClass::typeid;
MethodInfo^ m = t->GetMethod("MyMethod");
int i =(int)m->Invoke(myClass, gcnew array<Object^> { 1 });
- C. CompanyClass^ myClass = gcnew CompanyClass();
Type^ t = CompanyClass::typeid;
MethodInfo^ m = t->GetMethod("CompanyClass.MyMethod");
int i =(int)m->Invoke(myClass, gcnew array<Object^> { 1 });
- D. Type^ t = Type::GetType("CompanyClass");
MethodInfo^ m = t->GetMethod("MyMethod");
int i =(int)m->Invoke(this, gcnew array<Object^> { 1 });

Answer: B

Question: 378

You are creating a class to compare a specially-formatted string. The default collation comparisons do not apply. You need to implement the IComparable<string> interface. Which code segment should you use?

- A. public class Person : IComparable<string>{
public int CompareTo(string other){
}
}
- B. public class Person : IComparable<string>{
public int CompareTo(object other){
}
}
- C. public class Person : IComparable<string>{
public bool CompareTo(string other){
}
}
- D. public class Person : IComparable<string>{
public bool CompareTo(object other){
}
}

Answer: A

Question: 379

You create a class library that contains the class hierarchy defined in the following code segment. (Line numbers are included for reference only.)

```
01 public class Group {
02 public Employee[] Employees;
```

```

03 }
04 public class Employee {
05     public string Name;
06 }
07 public class Manager : Employee {
08     public int Level;
09 }

```

You create an instance of the Group class. You populate the fields of the instance. When you attempt to serialize the instance by using the Serialize method of the XmlSerializer class, you receive InvalidOperationException. You also receive the following error message: "There was an error generating the XML document."

You need to modify the code segment so that you can successfully serialize instances of the Group class by using the XmlSerializer class. You also need to ensure that the XML output contains an element for all public fields in the class hierarchy. What should you do?

A. Insert the following code between lines 1 and 2 of the code segment:

```

[XmlAttribute(Type = typeof(Employee))]
[XmlAttribute(Type = typeof(Manager))]

```

B. Insert the following code between lines 1 and 2 of the code segment:

```

[XmlElement(Type = typeof(Employees))]

```

C. Insert the following code between lines 1 and 2 of the code segment:

```

[XmlArray(ElementName="Employees")]

```

D. Insert the following code between lines 3 and 4 of the code segment:

```

[XmlElement(Type = typeof(Employee))]

```

And

Insert the following code between lines 6 and 7 of the code segment:

```

[XmlElement(Type = typeof(Manager))]

```

Answer: A

Question: 380

You are writing a method to compress an array of bytes. The bytes to be compressed are passed to the method in a parameter named document.

You need to compress the contents of the incoming parameter.

Which code segment should you use?

A. MemoryStream^ inStream = gcnew MemoryStream(document);
 GZipStream^ zipStream = gcnew GZipStream(inStream,
 CompressionMode::Compress);
 array<Byte>^ result = gcnew array<Byte>(document->Length);
 zipStream->Write(result, 0, result->Length);
 return result;

B. MemoryStream^ stream = gcnew MemoryStream(document);
 GZipStream^ zipStream = gcnew GZipStream(stream,
 CompressionMode::Compress);
 zipStream->Write(document, 0, document->Length);
 zipStream->Close();
 return stream->ToArray();

C. MemoryStream^ outStream = gcnew MemoryStream();
 GZipStream^ zipStream = gcnew GZipStream(outStream,
 CompressionMode::Compress);
 zipStream->Write(document, 0, document->Length);
 zipStream->Close();
 return outStream->ToArray();

D. MemoryStream^ inStream = gcnew MemoryStream(document);
 GZipStream^ zipStream = gcnew GZipStream(inStream,
 CompressionMode::Compress);

```

MemoryStream^ outputStream = gcnew MemoryStream();
int b;
while ((b = zipStream->ReadByte()) != -1) {
    outputStream->WriteByte((Byte)b);
}
return outputStream->ToArray();

```

Answer: C

Question: 381

You create a method that runs by using the credentials of the end user. You need to use Microsoft Windows groups to authorize the user. You must add a code segment that identifies whether a user is in the local group named Clerk. Which code segment should you use?

```

A. WindowsIdentity^ currentUser = WindowsIdentity::GetCurrent();
For each (IdentityReference^ grp in currentUser->Groups) {
    NTAccount^ grpAccount = safe_cast<NTAccount^>(grp->Translate(NTAccount::typeid));
    isAuthorized = grpAccount->Value->Equals(
        Environment::MachineName + "\\Clerk");
    if (isAuthorized) break;
}
B. WindowsPrincipal^ currentUser =
    safe_cast<WindowsPrincipal^>(Thread::CurrentPrincipal);
isAuthorized = currentUser->IsInRole("Clerk");
C. GenericPrincipal^ currentUser =
    safe_cast<GenericPrincipal^>(Thread::CurrentPrincipal);
isAuthorized = currentUser->IsInRole("Clerk");
D. WindowsPrincipal^ currentUser = safe_cast<WindowsPrincipal^>(Thread::CurrentPrincipal);
isAuthorized = currentUser->IsInRole(
    Environment::MachineName);

```

Answer: B

Question: 382

You write a class named Employee that includes the following code segment. public ref

```

class Employee{
    String^ employeeId;
    String^ employeeName;
    String^ jobTitleName;
public:
    String^ GetName() { return employeeName;
}
    String^ GetJobTitle() { return jobTitleName;
}
}

```

You need to expose this class to COM in a type library. The COM interface must also facilitate forward compatibility across new versions of the Employee class. You need to choose a method for generating the COM interface.

What should you do?

```

A. Add the following attribute to the class
definition.[ClassInterface(ClassInterfaceType::None)]public class
Employee {
B. Add the following attribute to the class
definition.[ClassInterface(ClassInterfaceType::AutoDual)]public
class Employee {
C. Add the following attribute to the class definition.[ComVisible(true)]public class Employee {

```

D. Define an interface for the class and add the following attribute to the class definition.[ClassInterface(ClassInterfaceType::None)]public class Employee : IEmployee {

Answer: D

Question: 383

You are developing a method to hash data for later verification by using the MD5 algorithm. The data is passed to your method as a byte array named message. You need to compute the hash of the incoming parameter by using MD5. You also need to place the result into a byte array. Which code segment should you use?

A. HashAlgorithm ^algo = HashAlgorithm::Create("MD5");
hash = algo->ComputeHash(message);
B. HashAlgorithm ^algo = HashAlgorithm::Create("MD5");
hash = BitConverter::GetBytes(algo->GetHashCode());
C. HashAlgorithm ^algo;
algo = HashAlgorithm::Create(message->ToString());
hash = algo->Hash;
D. HashAlgorithm ^algo = HashAlgorithm::Create("MD5");
hash = nullptr;
algo->TransformBlock(message, 0, message->Length, hash, 0);

Answer: A

Question: 384

You are developing a method that searches a string for a substring. The method will be localized to Italy.

Your method accepts the following parameters: The string to be searched, which is named searchListThe string for which to search, which is named searchValue You need to write the code. Which code segment should you use?

A. return searchList->IndexOf(searchValue);
B. CompareInfo^ comparer = gcnew CultureInfo("it-IT")::CompareInfo;
return comparer->Compare(searchList, searchValue);
C. CultureInfo^ comparer = gcnew CultureInfo("it-IT");
if (searchList->IndexOf(searchValue)
> 0) {
return true;
} else {
return false;
}
D. CompareInfo^ comparer =
gcnew CultureInfo("it-IT")::CompareInfo;
if (comparer->IndexOf(searchList,
searchValue) > 0) {
return true;
} else {
return false;
}
}

Answer: D

Question: 385

You are creating a class named Age.

You need to ensure that the Age class is written such that collections of Age objects can be sorted. Which code segment should you use?

```

A. public class Age {
    public int Value;
    public object CompareTo(object obj) {
        if (obj is Age) {
            Age _age = (Age) obj;
            return Value.CompareTo(obj);
        }
        throw new ArgumentException("object not an Age");
    }
}

B. public class Age {
    public int Value;
    public object CompareTo(int iValue) {
        try {
            return Value.CompareTo(iValue);
        } catch {
            throw new ArgumentException ("object not an Age");
        }
    }
}

C. public class Age : IComparable {
    public int Value;
    public int CompareTo(object obj) {
        if (obj is Age) {
            Age _age = (Age) obj;
            return Value.CompareTo(_age.Value);
        }
        throw new ArgumentException("object not an Age");
    }
}

D. public class Age : IComparable {
    public int Value;
    public int CompareTo(object obj) {
        try {
            return Value.CompareTo(((Age) obj).Value);
        } catch {
            return -1;
        }
    }
}

```

Answer: C

Question: 386

You are developing a method to encrypt sensitive data with the Data Encryption Standard (DES) algorithm.

Your method accepts the following parameters:

The byte array to be encrypted, which is named `message`
 An encryption key, which is named `key`
 An initialization vector, which is named `iv`

You need to encrypt the data. You also need to write the encrypted data to a `MemoryStream` object.

Which code segment should you use?

```

A. DES^ des = gcnew DESCryptoServiceProvider();
des->BlockSize = message->Length;
ICryptoTransform^ crypto = des->CreateEncryptor(key, iv);
MemoryStream ^cipherStream = gcnew MemoryStream();
CryptoStream ^cryptoStream = gcnew CryptoStream(cipherStream,crypto,
CryptoStreamMode::Write);
cryptoStream->Write(message, 0, message->Length);

```

```

B. DES ^des = gcnew DESCryptoServiceProvider();
ICryptoTransform ^crypto = des->CreateDecryptor(key, iv);
MemoryStream ^cipherStream = gcnew MemoryStream();
CryptoStream ^cryptoStream = gcnew CryptoStream(cipherStream, crypto,
CryptoStreamMode::Write);
cryptoStream->Write(message, 0, message->Length);
C. DES ^des = gcnew DESCryptoServiceProvider();
ICryptoTransform^ crypto = des->CreateEncryptor();
MemoryStream ^cipherStream = gcnew MemoryStream();
CryptoStream ^cryptoStream = gcnew CryptoStream(cipherStream,crypto,
CryptoStreamMode::Write);
cryptoStream->Write(message, 0, message->Length);
D. DES ^des = gcnew DESCryptoServiceProvider();
ICryptoTransform ^crypto = des->CreateEncryptor(key, iv);
MemoryStream ^cipherStream = gcnew MemoryStream();
CryptoStream ^cryptoStream = gcnew CryptoStream(cipherStream, crypto,
CryptoStreamMode::Write);
cryptoStream->Write(message, 0, message->Length);

```

Answer: D

Question: 387

You are developing a class library that will open the network socket connections to computers on the network.

You will deploy the class library to the global assembly cache and grant it full trust. You write the following code to ensure usage of the socket connections.

```

SocketPermission^ permission = gcnew SocketPermission(PermissionState::Unrestricted);
permission->Assert();

```

Some of the applications that use the class library might not have the necessary permissions to open the network socket connections.

You need to cancel the assertion.

Which code segment should you use?

- A. CodeAccessPermission::RevertAssert();
- B. CodeAccessPermission::RevertDeny();
- C. permission->Deny();
- D. permission->PermitOnly();

Answer: A

Question: 388

You are creating an undo buffer that stores data modifications. You need to ensure that the undo functionality undoes the most recent data modifications first. You also need to ensure that the undo buffer permits the storage of strings only. Which code segment should you use?

- A. Stack<String^> undoBuffer = gcnew Stack<String^>();
- B. Stack undoBuffer = gcnew Stack();
- C. Queue<String^> undoBuffer = gcnew Queue<String^>();
- D. Queue undoBuffer = gcnew Queue();

Answer: A

Question: 389

You need to generate a report that lists language codes and region codes.

Which code segment should you use?

- A. for each (CultureInfo^ culture in CultureInfo::GetCultures(CultureTypes::SpecificCultures)) {

```
// Output the culture information...}
B. CultureInfo^ culture = gcnew CultureInfo("");
CultureTypes^ types = culture->CultureTypes;
// Output the culture information...
C. for each (CultureInfo^ culture in CultureInfo::GetCultures(CultureTypes::NeutralCultures)) {
// Output the culture information...}
D. for each (CultureInfo^ culture in
CultureInfo::GetCultures(CultureTypes::ReplacementCultures)) {
// Output the culture information...}
```

Answer: A

Question: 390

You are developing a custom event handler to automatically print all open documents. The event handler helps specify the number of copies to be printed. You need to develop a custom event arguments class to pass as a parameter to the event handler.

Which code segment should you use?

```
A. public ref class PrintingArgs {
public :
int Copies;
PrintingArgs (int numberOfCopies) {
this->Copies = numberOfCopies;
};
B. public ref class PrintingArgs : public EventArgs {
public :
int Copies;
PrintingArgs(int numberOfCopies) {
this->Copies = numberOfCopies;
};
C. public ref class PrintingArgs {
public :
EventArgs Args;
PrintingArgs(EventArgs ea) {
this->Args = ea;
};
D. public ref class PrintingArgs : public EventArgs {
public :
int Copies;
};
```

Answer: B

Question: 391

You write the following custom exception class named CustomException.

```
public class CustomException : ApplicationException {
public static int COR_E_ARGUMENT = unchecked((int)0x80070057);
public CustomException(string msg) : base(msg) {
HRESULT = COR_E_ARGUMENT;
}}
```

You need to write a code segment that will use the CustomException class to immediately return control to the COM caller. You also need to ensure that the caller has access to the error code.

Which code segment should you use?

- A. return Marshal.GetExceptionForHR(CustomException.COR_E_ARGUMENT);
- B. return CustomException.COR_E_ARGUMENT;
- C. Marshal.ThrowExceptionForHR(CustomException.COR_E_ARGUMENT);
- D. throw new CustomException("Argument is out of bounds");

Answer: D

Question: 392

You create a class library that is used by applications in three departments of Company.com. The library contains a Department class with the following definition.

```
public class Department {  
    public string name;  
    public string manager;  
}
```

Each application uses a custom configuration section to store department-specific values in the application configuration file as shown in the following code.

```
<Department>  
<name>Hardware</name>  
<manager>Company</manager>  
</Department>
```

You need to write a code segment that creates a Department object instance by using the field values retrieved from the application configuration file. Which code segment should you use?

- A.

```
public class deptElement : ConfigurationElement {  
    protected override void DeserializeElement(  
        XmlReader reader, bool serializeCollectionKey) {  
        Department dept = new Department();  
        dept.name = ConfigurationManager.AppSettings["name"];  
        dept.manager =  
            ConfigurationManager.AppSettings["manager"];  
        return dept;  
    }  
}
```
- B.

```
public class deptElement: ConfigurationElement {  
    protected override void DeserializeElement(  
        XmlReader reader, bool serializeCollectionKey) {  
        Department dept = new Department();  
        dept.name = reader.GetAttribute("name");  
        dept.manager = reader.GetAttribute("manager");  
    }  
}
```
- C.

```
public class deptHandler : IConfigurationSectionHandler {  
    public object Create(object parent, object configContext,  
        System.Xml.XmlNode section) {  
        Department dept = new Department();  
        dept.name = section.SelectSingleNode("name").InnerText;  
        dept.manager =  
            section.SelectSingleNode("manager").InnerText;  
        return dept;  
    }  
}
```
- D.

```
public class deptHandler : IConfigurationSectionHandler {  
    public object Create(object parent, object configContext,  
        System.Xml.XmlNode section) {  
        Department dept = new Department();  
        dept.name = section.Attributes["name"].Value;  
        dept.manager = section.Attributes["manager"].Value;  
    }  
}
```

```
return dept;
}} Answer: C
```

Question: 393

You write the following custom exception class named CustomException.

```
public ref class CustomException : ApplicationException {public:
    literal int COR_E_ARGUMENT = (int)0x80070057;
    CustomException(String^ msg) : ApplicationException(msg)
    {
        HRESULT = COR_E_ARGUMENT;
    }
};
```

You need to write a code segment that will use the CustomException class to immediately return control to the COM caller. You also need to ensure that the caller has access to the error code. Which code segment should you use?

- A. return Marshal::GetExceptionForHR(CustomException::COR_E_ARGUMENT);
- B. return CustomException::COR_E_ARGUMENT;
- C. Marshal::ThrowExceptionForHR(CustomException::COR_E_ARGUMENT);
- D. throw gcnew CustomException("Argument is out of bounds");

Answer: D

Question: 394

You are writing a method to compress an array of bytes. The array is passed to the method in a parameter named document. You need to compress the incoming array of bytes and return the result as an array of bytes. Which code segment should you use?

- A. MemoryStream^ strm = gcnew MemoryStream(document);
DeflateStream^ deflate = gcnew DeflateStream(strm, CompressionMode::Compress);
array<Byte>^ result = gcnew array<Byte>(document->Length);
deflate->Write(result, 0, result->Length);
return result;
- B. MemoryStream^ strm = gcnew MemoryStream(document);
DeflateStream^ deflate = gcnew DeflateStream(strm, CompressionMode::Compress);
deflate->Write(document, 0, document->Length);
deflate->Close();
return strm->ToArray();
- C. MemoryStream^ strm = gcnew MemoryStream();
DeflateStream^ deflate = gcnew DeflateStream(strm, CompressionMode::Compress);
deflate->Write(document, 0, document->Length);
deflate->Close();
return strm->ToArray();
- D. MemoryStream^ inStream = gcnew MemoryStream(document);
DeflateStream^ deflate = gcnew DeflateStream(inStream, CompressionMode::Compress);
MemoryStream^ outStream = gcnew MemoryStream()
int b;
while ((b = deflate->ReadByte()) != -1) {
 outStream->WriteByte((Byte)b);
}
return outStream->ToArray();

Answer: C

Question: 395

You are writing a custom dictionary. The custom-dictionary class is named MyDictionary. You need to ensure that the dictionary is type safe.

Which code segment should you use?

- A. `public ref class MyDictionary : public Dictionary<String^, String^>{};`
- B. `public ref class MyDictionary : public Hashtable{};`
- C. `public ref class MyDictionary : public IDictionary{};`
- D. `public ref class MyDictionary{};`
`Dictionary<String^, String^> t = gcnew Dictionary<String^, String^>();`
`MyDictionary dictionary = (MyDictionary)t;`

Answer: A

Question: 396

You develop a service application named FileService. You deploy the service application to multiple servers on your network. You implement the following code segment. (Line numbers are included for reference only.)

```
01 public :
02 void StartService(String^ serverName){
03
04 ServiceController^ ctrl = gcnew
05 ServiceController("FileService");
06 if (ctrl->Status == ServiceControllerStatus::Stopped){}
07 }
```

You need to develop a routine that will start FileService if it stops. The routine must start FileService on the server identified by the serverName input parameter.

Which two lines of code should you add to the code segment? (Each correct answer presents part of the solution. Choose two.)

- A. Insert the following line of code between lines 03 and 04: `ctrl.ServiceName = serverName;`
- B. Insert the following line of code between lines 03 and 04: `ctrl.MachineName = serverName;`
- C. Insert the following line of code between lines 03 and 04: `ctrl.Site.Name = serverName;`
- D. Insert the following line of code between lines 04 and 05: `ctrl.Continue();`
- E. Insert the following line of code between lines 04 and 05: `ctrl.Start();`
- F. Insert the following line of code between lines 04 and 05: `ctrl.ExecuteCommand(0);`

Answer: B,E

Question: 397

You are loading a new assembly into an application. You need to override the default evidence for the assembly. You require the common language runtime (CLR) to grant the assembly a permission set, as if the assembly were loaded from the local intranet zone.

You need to build the evidence collection. Which code segment should you use?

- A. `Evidence^ evidence = gcnew Evidence(Assembly::GetExecutingAssembly()->Evidence);`
- B. `Evidence^ evidence = gcnew Evidence();`
`evidence->AddAssembly(gcnew Zone(SecurityZone::Intranet));`
- C. `Evidence^ evidence = gcnew Evidence();`
`evidence->AddHost(gcnew Zone(SecurityZone::Intranet));`
- D. `Evidence^ evidence = gcnew Evidence(AppDomain::CurrentDomain->Evidence);`

Answer: C

Question: 398

You are developing an application for a client residing in Hong Kong.

You need to display negative currency values by using a minus sign. Which code segment should you use?

- A. `NumberFormatInfo^ culture = gcnew CultureInfo("zh-HK");`
`NumberFormat culture = culture->NumberFormat;`
`culture->NumberNegativePattern = 1;`
`return numberToPrint->ToString("C", culture);`
- B. `NumberFormatInfo^ culture = gcnew CultureInfo("zh-HK");`
`NumberFormat culture = culture->NumberFormat;`
`culture->CurrencyNegativePattern = 1;`
`return numberToPrint->ToString("C", culture);`
- C. `CultureInfo^ culture = gcnew CultureInfo("zh-HK");`
`return numberToPrint->ToString("-(0)", culture);`
- D. `CultureInfo^ culture = gcnew CultureInfo("zh-HK");`
`return numberToPrint->ToString("()", culture);`

Answer: B