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Question: 1

You create Web-based client applications. You are creating a sales management application. The application will be used to produce sales orders. Sales data, including orders and product information, is stored in a central Microsoft SQL Server 2005 database. The application uses Microsoft Windows Integrated security to access data. You test the application component that is used to retrieve sales order information from the database. The tests are successful. You check the code back into the source control so that the other testers can utilize the code. The testers notify you that the application fails to connect to the database in the test environment. You test the application again and the tests are successful. You need to recreate the bug environment to investigate and resolve the bug. Which three aspects of the testing environment should you take into account? (Each correct answer presents part of the solution. Choose three.)

A - Web server processor speed
B - Database security settings
C - Network bandwidth
D - Web server available memory
E - Network credentials used for testing
F - Impersonation settings

Answer: B, E, F

Question: 2

You create Web-based applications. You are creating an application that manages travel arrangements. Users can book business trips through the application and submit their expense reports. The current design specifies that 10 components are consumed by the application. You need to identify the components that require integration testing. Which three components should you choose? (Each correct answer presents part of the solution. Choose three.)

A - public Web service to retrieve weather information
B - third-party Web service to book flights
C - third-party Web service to book car rentals
D - locally hosted COM+ component to book hotels
E - locally hosted data access component to access a central database
F - the .NET Framework Web server controls

Answer: A, B, C

Question: 3

You create Web-based client applications. You are reviewing a Web application page that populates a list of all employees of your company. You analyze code and find that the Web application page does not prevent exceptions from traveling to the browser. You need to ensure that the Web application page intercepts exceptions and presents an error message to the browser. What change should you suggest?

A - Add the following code segment to the Web.config file.
<system.web>

```
<compilation
  debug="true"/>
</system.web>
```

B - Add the following code segment to the page. protected
void Page_Error(object sender, EventArgs e) { Response.
Redirect(*error.aspx"); }

C - Add the following code segment to the Web.config file.
<system.web> <customErrors mode="Off"/>
</system.web>

D - Change the load event handler to the following code segment.
protected void Page_Load(object sender, EventArgs e) { try{ Load
Employees(); } Catch { Response. Redirect("error.aspx"); } }

Answer: B

Question: 4

You create Web-based client applications. You are creating a Web site that displays product information for your company. The application must meet the following requirements:
Support at least 20 concurrent users.

Consume less than 40 percent of the CPU time during peak usage.

Process at least five requests per second during peak usage, which is estimated to be between 20 and 30 users.

A Web test is created to verify the requirements by recording how a regular user would interact with the site. Then, based on the Web test, a load test is created. The load test simulates 30 users who execute the Web test simultaneously. You need to decide whether the current strategy is enough to verify the requirements, and recommend changes. What should you recommend?

A - The current strategy is enough to test the requirements. B - Create a unit test for the processor intensive methods. C - Create a second load test for 20 simultaneous users. D - Delete the load test and use the Web test with system monitor.

Answer: A

Question: 5

You create Web-based applications. You are creating an Internet banking application. You write the following lines of code to represent a method in your application. (Line numbers are included for reference only.)

```
01 public void Transfer(decimal amount, BankAccount account)
02 { 03 if (!(amount > 0)) 04 throw new Exception("Invalid
deposit amount!"); 05 else 06 {
```

```
07 this.Withdraw(amount); 06
account.Deposit(amount); 09
} 10 }
```

You use the Microsoft Visual Studio 2005 test feature to automatically generate the following unit test. (Line numbers are included for reference only.)

```
01 [TestMethod()] 02 public void TransferTest() 03 { 05 BankAccount target = new
BankAccount(); 06 BankAccount transferTo = new BankAccount(); 07
target.Deposit(500); 06 target.Transfer(100,transferTo); 09 Assert.Inconclusive("A
method that does not return a value cannot be verified."); 10 }
```

You need to change the test method to return a conclusive result. Which line of code should replace the code on line 09 of the unit test?

A - Assert.AreEqual (400M, target.Balance); B - Assert.IsTrue (target.Balance != 400M); C - Debug.Assert (target.Balance == 400M,passed); D - Debug.Assert (target.Balance 400M,failed);

Answer: A

Question: 6

You create Web-based client applications. You create a Web site that will be used to simulate different types of loans. You are writing a method to calculate the payment on a simple loan. You write the following lines of code for the method. (Comments are included for reference only.)

```
public static decimal Payment(decimal loanAmount, int period, decimal rate){
if (!!(loanAmount> 0)!!!(period> 1)!!!(rate > 0)) { //Line A throw new
Exception("Invalid input"); // Line B }else { return 0M; // Line C: return a
calculated payment } } public static decimal CheckBalance(ulong accountID)
{ return 0M; // Line D: return calculated balance } You write the following
code for the unit test. [TestMethod()] public void PaymentTest() { decimal
payment = Loan.Payment(100000,360,10); //Line E
Assert.AreEqual(payment, 877.57M); // Line F
```

You enable coverage testing for this unit test. You need to identify the coverage of your test. Which lines are covered by the test?

A - Lines commented A, B, and C B - Lines commented A and C C - Lines commented A, B, C, D, E, and F

D - Lines commented A, B, C, E, and F

Answer: B

Question: 7

You create Web-based client applications. You are creating an online reporting application that must generate inventory restocking reports within 34 seconds. In the development environment, during a unit test, generation of the month-end report took 42 seconds. You need to recommend what action must be taken to validate the test results. What should you recommend?

A - Update the performance requirements, and do performance testing in the production environment. B - Deploy a debug build of the code, and do performance testing in the staging environment. C - Update the code to meet the requirements, and do unit testing in the staging environment. D - Deploy a release build of the code, and do performance testing in the staging environment.

Answer: D

Question: 8

You create Web-based client applications. You create an application that is used as a portal. The portal uses a set of custom controls that expose different functionalities.

The set of custom controls includes one control each for the following three tasks:

Track sales Track inventory Permit access to the corporate e-mail of the company

The portal must permit users to select the controls that they need to display on the basis of a predefined list.

The design team proposes the following steps to meet the requirement: Create the custom controls as Web parts. Create a Web part zone page that has two Web part controls and a catalog part control. Add the sales Web part control to the Web part zone. You need to evaluate whether the solution meets the requirements. What should you conclude?

A - The requirements are met. There is no need to change the application design. B - The requirements are not met. An editor part zone is necessary. C - The requirements are not met. The Web part controls must be added to the catalog part. D - The requirements are not met. The Web part controls must be added to the Web part page.

Answer: C

Question: 9

You create Web-based client applications. You create an application that will be used by customers to browse the product catalog of an Internet-based store and buy products. The application must meet the following requirements:

Permit registered customers of the store to change display settings and personal information. Store the updated information and associate the information with the logged-on customer. You need to choose appropriate technologies to meet these requirements. Which two technologies should you choose? (Each correct answer presents part of the solution. Choose two.)

A - SSL B -
Editor parts C -
Catalog parts D -
User profiles E -
Themes

Answer: D, E

Question: 10

You create Web-based client applications. You are creating a Web control that includes data entry fields. The Web control also includes data validation code. The data validation code verifies whether the user has entered a valid date and a valid postal code in a text box. You are writing the code within the Web control to handle the invalid data. The Web control must work on as many browsers as possible. You need to design an appropriate feedback technique. What should you do?

A - Throw an exception, and include details about the invalid data in the Message property. B - Throw an exception, and include details about the invalid data in the InnerException property. C - Use a pop-up error message to inform the user that the data is not valid. D - Display text to indicate why the data is not valid.

Answer: D

Question: 11

You create Web-based client applications. You are creating a content management system (CMS). You intend to sell CMS to your customers. It is important that customers customize the appearance and behavior of the CMS installation because the system will be used for external Web sites. However, your customers are not programmers. The customers will not be able to modify complicated source code to customize the appearance and behavior of their Web sites. You need to create the system in such a way that customers can modify the appearance and behavior of their Web sites by editing the minimum number of files, ideally one or two. Which strategy should you use?

A - By using ASP.NET Server Controls and class inheritance, create a template system that permits controls to inherit the appearance and behavior of their inherited class. Permit users to modify the root classes or the hierarchy to rearrange completely the appearance and behavior of their Web sites.
B - Create a set of ASP.NET master pages and associate every page in your system by using a specific master page. Permit users to modify these master pages to rearrange completely the appearance and behavior of their Web sites.
C - Configure your system to output completely compliant XHTML and use cascading style sheets (CSS) to create the visual layout of the pages. Permit users to modify the CSS files to rearrange completely the appearance and behavior of their Web sites.
D - Create the root pages by using ASP.NET `#include` directives to pull in the relevant sub-pages. Permit users to modify these root pages as desired to rearrange completely the appearance and behavior of their Web sites.

Answer: B

Question: 12

You create Web-based client applications. You are creating an ASP.NET intranet site. The site permits individual departments to post content without involving the Central Information Technology resources. The site also permits Central Information Technology to maintain control over the intranet as a whole. Each department wants complete control over the appearance and behavior of their departmental content. However, Information Technology directives require every

page on the intranet to maintain a consistent appearance and behavior. You need to develop the Web page on the intranet site so that it meets the requirements. What should you do?

- A - Create a single ASP.NET master page and individual department master pages. The pages must refer to the master page. Permit each department to modify its master page as desired as long as it references the company master page.
- B - Create a set of common .aspx files that contain the common style sheets and the header, navigation bar, and footer content that are to be referenced from departmental home pages by using ASP.NET #include directives.
- C - Create a base class that inherits from System.Web.UI.Page and design this page to control the common user interface elements.
- D - Create the home pages for all departments as ASP.NET server controls. Reference each control from the main project and load the appropriate server control when a departments home page is loaded.

Answer: A

Question: 13

You create Web-based client applications. You are creating a user-assistance mechanism for a Web form. The Web form serves as a multilevel wizard for clients to set up a new inventory for items.

The user-assistance mechanism must meet the following requirements:

Enable entry-level users to understand every step of the multilevel wizard process. Ensure that users complete the multilevel wizard on their first try. You need to select the appropriate user-assistance mechanism to meet the outlined requirements. What should you do?

- A - Place a Help link and a hidden label next to each field on each step of the wizard. The label must contain a brief description of the purpose of the field. Click the Help link to make the label visible.
- B - Place a Help link at the bottom of each step of the wizard, which opens a Web-based Help document for the entire wizard.
- C - Place a description of each step of the wizard on the first page of the wizard, before the user has entered any data.
- D - Place text containing user assistance for each step of the wizard at the top of that step.

Answer: D

Question: 14

You create Web-based client applications. Your client company has an existing ASP.NET Web-based application. The Web-based application uses a combination of HTML and client-side scripting to deliver online training content. Your client company has asked you to enhance the application to deliver interactive multimedia content. The enhanced application must support dialup users. You need to recommend an appropriate multimedia delivery mechanism for the application. What should you recommend?

- A - Dynamic HTML
- B - Streaming video
- C - Vector graphics animation
- D - XML/XSLT

Answer: C

Question: 15

You create Web-based client applications. You are designing an extranet site for a company of trading partners.

You decide to use the following technologies:

Windows Authentication XML to transfer data between the company and the traders
Before implementation, these technologies must be validated. You propose the following approach to perform the validation: Coordinate a test set of Active Directory accounts for one trading partner. Provide the trading partner access to a test site that has logon facility. Distribute the XML schema that permits the partner to access data.

You need to evaluate whether the approach validates the proposed technology successfully.

What should you conclude?

- A - The approach validates the use of the proposed technology for the application.
- B - The approach does not validate the use of the proposed technology for the application. The company and the partner need to create test applications. The test applications need to read data in the proposed XML schema to establish the validation.
- C - The approach does not validate the use of the proposed technology for the application. The company and the partner need to coordinate their Active Directory tree into a shared Active Directory forest.
- D - The approach does not validate the use of the proposed technology for the application. You must either use an existing publicly documented XML schema or register the shared XML schema by using an authentication site.

Answer: B

Question: 16

You create Web-based client applications. You are evaluating the design of an e-commerce Web site. The Web site processes credit card information. The Web site has a shopping cart and expects a high volume of traffic, especially during peak shopping times.

The design specifications for the application must meet the following criteria:

The application will be hosted on a Web farm. The application will use SSL during the checkout process. Shopping cart information will be stored in InProc session variables. You need to evaluate the design of the application and recommend whether it is technically feasible and complete. What should you conclude?

- A - The design is technically feasible, but it is not complete. The application must be configured to use cookieless sessions. Each server on the farm must use a unique certificate.
- B - The design is technically feasible and complete.
- C - The design is technically feasible, but it is not complete. The servers must have their affinity set to a single host (sticks! sessions).
- D - The design is not technically feasible. The application cannot be hosted on a Web farm.

Answer: C

Question: 17

You create Web-based applications. You are creating an Internet banking application. The application will be used by bank account holders. You are creating a method to withdraw money from an account. The method must change the account balance according to one of the following rules:

If the amount that is being withdrawn is less than or equal to the account balance, then subtract the amount from the balance. If the amount that is being withdrawn is greater than the account balance by up to 500 dollars, then subtract the amount and a 35-dollar fee from the balance. If the amount that is being withdrawn is greater than the account balance by more than 500 dollars, then generate an error. You are translating the specification given here into pseudo code. You start by writing the following code.

Method public void
Withdraw Input
parameters decimal
amount Class field
decimal balance
Pseudo code //your
pseudo code

You need to insert the correct pseudo code. Which code segment should you insert?

- A - If amount < balance then balance - = amount If amount < balance + 500 then balance = balance - (amount + 35) If amount > balance + 500 then throw exception
- B - If amount <= balance then balance - = amount If amount <= balance + 500 then balance = balance - (amount + 35) If amount > balance + 500 then throw exception
- C - If amount < balance then balance - = amount Else If amount < balance + 500 then balance = balance - (amount + 35) Else throw exception
- D - If amount <= balance then balance - = amount Else If amount <= balance + 500 then balance = balance - (amount + 35) Else throw exception

Answer: D

Question: 18

You create Web-based client applications. You are designing a database that must meet the following requirements: Store data about people in the People table and data about the companies they work for in the Companies table. Track an unlimited number of companies for a person.

Track an unlimited number of persons who worked at each company. You decide to create a one-to-many link from the People table to the Companies table. You need to evaluate whether the database is designed effectively and make a recommendation, if required. What should you recommend?

A - The database is not correctly designed according to the requirements. You must create a many-to-many link between the People table and the Companies table by using an intersection table.

B - The database is not correctly designed according to the requirements. You must create a many-to-many link directly between the People table and the Companies table.

C - The database is not correctly designed according to the requirements. You must create a one-to-many link from the People table to the Companies table. Create another one-to-many link from the Companies table to the People table. Add columns to the People table and the Companies table to accommodate multiple child rows.

D - The database is correctly designed according to the requirements. No changes are required.

Answer: A

Question: 19

You create Web-based client applications. All Web-based applications are created by using ASP.NET. Larger applications are hosted on Web server farms. The larger applications appear to intermittently lose session state information for users. You need to correct the problem. What should you do?

A - Add additional servers to the Web farm to accommodate load. Configure the entire Web farm to reside in the same domain, Configure IIS on each server to have domain-level administrative permissions.

B - Modify the Web.config file and set the mode attribute of the sessionState element to InProc. Restart IIS on each associated Web server. C - Modify the Web.config file and set the mode attribute of the sessionState element to StateServer. Start the state service on each associated Web server.

D - Modify the Web.config file and set the mode attribute of the sessionState element to None. Configure IIS on each Web server to make state information available to all servers in the Web farm.

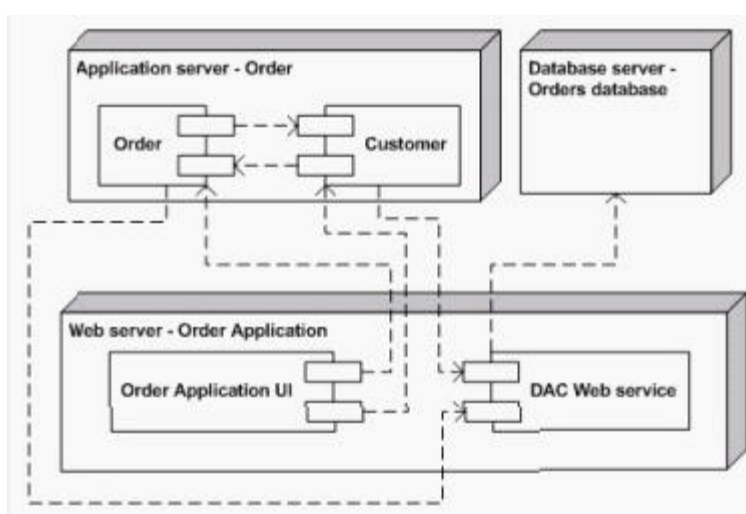
Answer: C

Question: 20

You create Web-based applications. You are creating an application for purchase order management. The application is composed of a Web client, business logic components, a Data Access Component (DAC) Web service, and a central database.

The application design meets the following specifications: The Web-based client application is used for end-user interaction. The Web-based client application uses two business logic components named Order and Customer. Each customer can have multiple orders. Each order belongs to a single customer. The business logic components use a DAC Web service. The business logic components make data available to the Web-based client application.

You receive a deployment diagram as shown in the following exhibit. (Click the Exhibit button.)



You need to evaluate the diagram to ensure that it complies with the specifications. What should you conclude?

A - The diagram complies with the specifications. B - The diagram is incomplete. It needs a dependency from the Web client component to the Microsoft Data Access component. C - The diagram is incomplete. It needs a dependency from the Data Access component to the Order component. D - The diagram is incomplete. It needs a dependency from the Order component to the Web-based client application.

Answer: A

Question: 21

You create Web-based client applications. You deploy an application for a company. The application enables customers to access mobile phone invoices. Users report that the application fails to respond and time-outs occur. You test the application and find that the reports are valid. You need to identify the cause of the problem. Which analysis strategy should you use?

A - Start the performance Microsoft Management Console snap-in. Change to the Report view. Add all ASP.NET performance object counters. Look for high counts of requests queued and requests timed out.
 B - Start the event viewer Microsoft Management Console snap-in. Switch to the Application view. Look for high counts of number of requests timed that are shown at configured intervals.
 C - Start the performance Microsoft Management Console snap-in. Change to the Report view. Add all the network interface performance object counters. Look for high counts of requests queued and requests timed out.
 D - Open the Trace.axd file. Scroll to the performance count category. Look for high counts of requests queued and requests timed out.
 E - Start the event viewer Microsoft Management Console snap-in. Switch to the System view. Apply a filter to show only ASP NET related events. Look for high counts of number of requests timed out that are shown at configured intervals.

Answer: A

Question: 22

You create Web-based client applications. You deploy an application on your company extranet. The application uses an ASP.NET 2.0 Membership system. The support team requires that changes in passwords be communicated to their Microsoft Windows Management Instrumentation (WMI) integrated system. You propose the use of health monitoring APIs to perform the following actions: Respond to password changes inside the application. Call a custom event handler when a password change occurs. Report the changes to the support teams WMI system by using the custom event handler.

You need to examine whether the proposed solution meets the requirements. What should you conclude?

A - The proposed solution meets the requirements. B - The proposed solution does not meet the requirements. The health monitoring API does not support WMI directly.

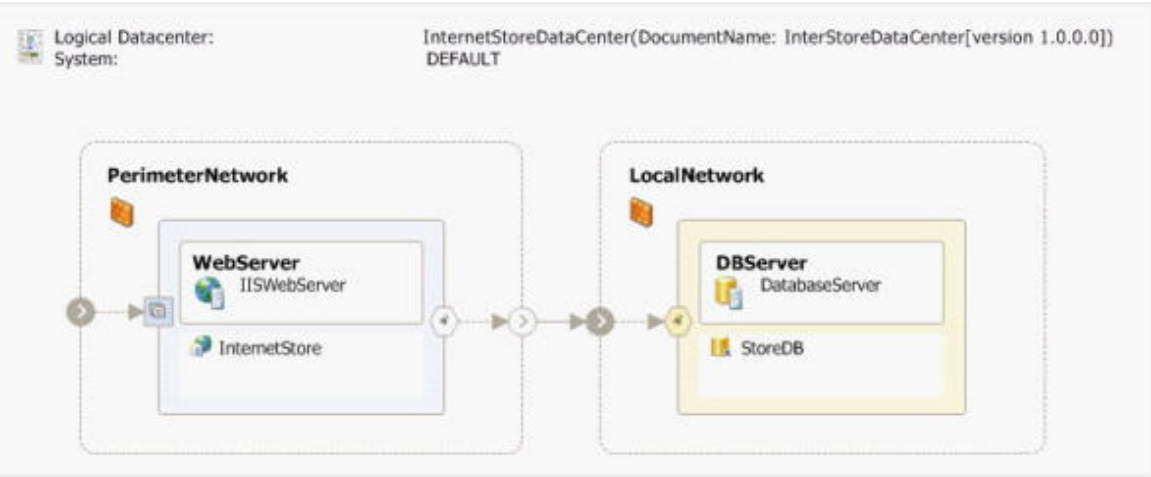
C - The proposed solution does not meet the requirements. The output of the WMI export is done on a batch basis that relies on the Heartbeat method. The Heartbeat method will not permit event-driven interaction.

D - The proposed solution does not meet the requirements. The health monitoring API cannot ascertain successful password changes.

Answer: A

Question: 23

You create Web-based client applications. You deploy an application that manages an Internet-based store. Customers are able to browse a list of products, create an order to buy the products, and view the status of their orders. The operational application requirements state that the application must be available for browsing when the database server is not available. The production environment uses a Network Load Balancing cluster to host the application. The application uses an XML file stored on the database server to read data that is used for product browsing. The deployment diagram for the application is as shown in the following exhibit. (Click the Exhibit button.)



You need to evaluate the production environment and recommend changes, if required, to meet the operational requirements of the application. What should you conclude?

A - The current production environment meets the requirements. B - The current production environment does not meet the requirements. The XML file must be placed on the Web server. C - The current production environment does not meet the requirements. The data from the XML file must be stored in the database. D - The current production environment does not meet the requirements. The database server must be added to the Network Load Balancing cluster of the Web tier.

Answer: B

Question: 24

You create Web-based client applications. You deploy an application on the company extranet. The sales team requires notification when an order total exceeds the company's approval levels. The application requires you to send an e-mail to the sales manager to receive approval for any order over \$100,000. You must meet the following constraints to achieve this requirement: Modifications can be done only to the Web.config file Limited programmer resources System can be configured as needed at multiple sites The design team plans to use the SimpleMailWebEventProvider class of the health monitoring APIs to send the e-mail. You need to evaluate whether the design meets the requirement. What should you recommend?

A - The design meets the requirement. B - The design does not meet the requirement. Though there is a built-in event handler to process all errors, you need to write a custom provider to send e-mail to the sales manager.

C - The design does not meet the requirement. You need to write a custom event handler to respond to an application specific trigger. You can use a built-in provider to send e-mail to the sales manager.

D - The design does not meet the requirement. You need to write a custom event handler to respond to an application specific trigger. You need a custom provider to write e-mail to the sales manager.

Answer: C

Question: 25

You create Web-based client applications. You are creating an intranet application that reviews customer data. The internal Personally Identifiable Information (PII) policy specifies the following requirements for access to customer data: Only employees in the customer management group can access the customer data. Access to customer data is limited to computers that are inside company facilities. The legal team advises that you log information that verifies that you have met the PII requirements. The log might be useful if there is a legal challenge over customer privacy. You must create a design that uses minimum amount of storage. You must also ensure that the design meets all the requirements. You decide to store the Microsoft Windows user name for any user who uses the program to access the customer data. You also decide to store the date and time of the access. You need to decide if the design will meet all the requirements. What should you conclude?

A - The design meets the requirements. The design stores sufficient information to provide the legal department with documentation that their rules have been followed without wasting space on extra data.

B - The design does not meet the requirements. You need to store only user information about tailed logon attempts. This design wastes space storing extra data.

C - The design does not meet the requirements. You also need to store the P address of all logon attempts to demonstrate that the access was made from inside the company. D - The design does not meet the requirements. You also need to store the IP address of all failed logon attempts to demonstrate that the access was made from inside the company.

Answer: C

Question: 26

You create Web-based client applications. You are creating a Web component that calls an existing function. The function might throw an application-specific exception of type `InvalidChecksumException`. The type `InvalidChecksumException` inherits from the `System.ApplicationException` class. The component is coded to recover from an `InvalidChecksumException` exception, but not to recover from other types of exceptions. The component does not have any additional information that could be usefully added to other types of errors or exceptions. You need to design the component to correctly handle exceptions. You also need to ensure that the exception handling strategy does not affect the performance of the component. What should you do?

A - Use a catch statement that verifies an `ApplicationException` instance and find the exception type. If it is an `InvalidChecksumException` instance, handle it internally. Otherwise, pass the exception up the call stack.

B - Use only a catch statement that verifies an `InvalidChecksumException` instance that will be handled internally.

C - Use a catch statement without parameter. Verify the `Message` property to see if the exception is an `InvalidChecksumException` instance and handle it internally. Otherwise, pass the exception up the call stack.

D - Use a catch statement that verifies an `InvalidChecksumException` instance followed by another catch statement that verifies general exceptions. In the first catch block, handle the exception internally. In the second catch block, log the error and pass the exception up the call stack as an inner exception.

Answer: B

Question: 27

You create Web-based client applications. You create an application that has 20 pages. The pages include tables of data. The tables of data must meet the following requirements: Each table of data must display the data from one database table.

When a user clicks on a column heading, the column must sort the data in the table. A style sheet must be used to format the tables. You need to meet the requirements for the tables in the most efficient way possible. What should you do?

A - Use a `DataList` component that contains all the necessary functionalities. B - Use the `GridView` component that is included with Microsoft Visual Studio 2005. C - Write your own reusable software component. D - Use an XML dataset.

Answer: B

Question: 28

You create Web-based client applications. You are evaluating the configuration architecture of an application in a suite of tools that is managed from a common management console. You must get user-specific information, which is gathered during the user sessions, for the marketing department so that they can analyze trends in usage. Eventually, the marketing department might

decide to store the data on their Microsoft SQL Server database in the next version of their customer management tool suite. The configuration architecture has the following features: The data is stored in files on a shared file server.

Permissions for the server permit the Web server to write and the marketing department to read the data. The data is formatted in XML. You need to evaluate whether the configuration architecture meets the requirements. What should you recommend?

A - The configuration architecture meets both the present and future requirements. B - The configuration architecture meets the present requirements. However, it will not facilitate future SQL Server migration. C - The design does not meet the requirements. You need to store the data in an application-level variable. D - The design does not meet the requirements. Session-level data should be stored on either a Microsoft SQL Server or a Session Server to facilitate scalability.

Answer: A

Question: 29

You create Web-based client applications. You create an ASP.NET Web application. Five hundred users will access the Web-based application simultaneously. The application uses session variables to persist user data. You monitor the application by using System Monitor. You need to identify a counter that will warn you of the problems that you are most likely to face while monitoring. Which counter should you use?

A - ASP.NET ApplicationsAnonymous requests/sec
B - ASP.NET ApplicationsCache total entries
C - MemoryAvailable megabytes
D - Physical DiscDisc reads/sec

Answer: C

Question: 30

You create Web-based client applications. You create a public function for your application that must connect to a data source. The public function must also perform a series of updates to the data. Some of the operations will result in exceptions if there are errors. Your exception handling mechanism must meet the following requirements: Callers of the function must be able to ascertain whether the function succeeded or failed. If the function failed, callers of the function must be able to find where and why it failed. If there is any error, the function must immediately stop processing. You need to identify the best exception handling mechanism. What should you do?

A - Return an application-specific error code indicating overall success or failure of the function, with sub-codes indicating the stage where failure occurred.
B - Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Do not return a status code or throw an exception if the function succeeds.
C - Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Return a status code detailing whether the function succeeds or does not succeed.
D - Return an application-specific exception that includes any caught exceptions or return null if the entire function succeeds.

Answer: B

Question: 31

You create Web-based client applications. You are creating a component that sends the data that is generated by regional offices to a remote server that is located at the central office. Each regional office generates thousands of orders every week. This data is stored on several tables in an instance of Microsoft SQL Server that is located at the regional office. The manager at the regional office reviews all orders and modifies them, if necessary, before inserting them into the database at the central office.

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

The manager has the option of reviewing and modifying the orders offline. The data from a regional office is copied to the server that is located at the central office in as short a time as possible. Which option should you use?

- A - a DataSet object and a SqlBulkcopy object
- B - an SqlCommand object that uses a T-SQL statement
- C - a DataSet object that uses a T-SQL statement
- D - a DataTableReader object and a SqlBulkCopy object

Answer: A

Question: 32

You create Web-based client applications. You create an e-commerce application. Users are permitted to customize the application. All user settings and product information of the application are stored in a database. The class diagram for the application is as shown in the Exhibit. (Click the Exhibit button.)



You need to identify the correct logical layer in which each class resides based on the class diagram. Which set of associations should you identify?

- A - The Checkout class is in the Business Layer. The Product class is in the Data Layer. The Profile class is in the Data Layer.
- B - The Checkout class is in the Data Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.
- C - The Checkout class is in the Business Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.
- D - The Checkout class is in the Presentation Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.

Answer: C

Question: 33

You create Web-based client applications. You create a component that displays the category of a product and the product data on a Web page. The data is stored on the Web server in an XML file.

The Web page must meet the following requirements:

Display each category of products. List the name, description, and price of each product in a category. Prohibit the user from modifying the data. Load as quickly as possible. Use the minimum amount of code. Retrieve the data to display from the XML file.

You need to identify the specific classes of a component that can be used to meet your Web page requirements. Which classes should you choose?

A - a DataBinder class and a DataSet class B - an XPathBinder class and an XmlDataSource class C - a DataBinder class and an XmlDataSource class D - an XPathBinder class and a DataSet class

Answer: B

Question: 34

You create Web-based client applications. You are creating a class library that will be used by an e-commerce Web-based application. The library has an abstract class that is named Product. The Product class serves as a base class for the other classes and provides a default ProductID property. Each class other than the base class represents a type of product that is sold by your company. There is a ProductID property and a GetProductDetails procedure for each product type.

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

The shopping cart in your Web-based application processes all product types in the same manner.

Each class retrieves its data from a different source. The GetProductDetails procedure retrieves the data from the appropriate source for the product type

What should you include in the Product class?

A - an abstract ProductID property and a virtual GetProductDetails procedure B - a virtual ProductID property and a virtual GetProductDetails procedure C - a virtual ProductID property and an abstract GetProductDetails procedure D - an abstract ProductID property and an abstract GetProductDetails procedure

Answer: C

Question: 35

You create Web-based client applications. You create a class library that is named Fabrikam.dll. Ten applications will use Fabrikam .dll. Fabrikam.dll contains two classes that are named Order and Orderoetail.

The class library must meet the following requirements:

Both the classes in Fabrikam.dll are available to client applications of Fabrikam.dll. Each instance of the OrderDetail class is associated with an instance of the Order class. Code segments in client applications do not instantiate the OrderDetail class. The OrderDetail class contains no static members.

You need to design the interface for the OrderDetail class. Which code segment should you choose?

A - public sealed class OrderDetail{
internal OrderDetail(){ ... } }

B - internal sealed class OrderDetail {
internal OrderDetail() { ... } }

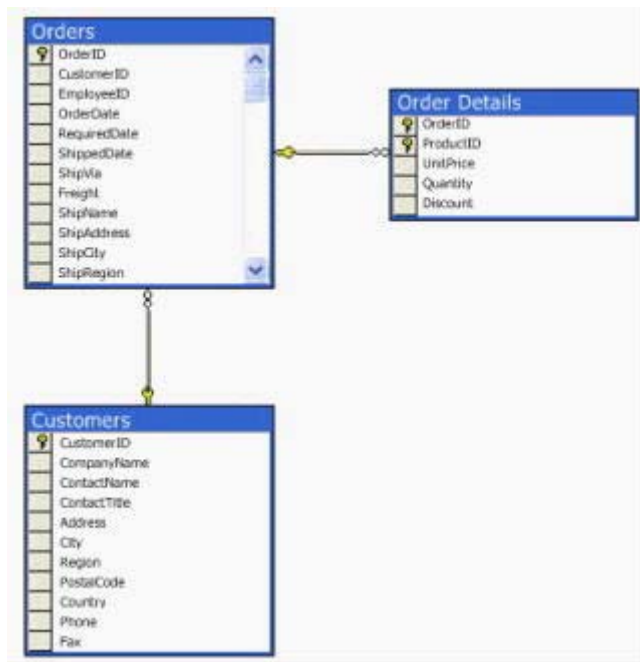
C - public sealed class OrderDetail
public OrderDetail() ... } }

D - public sealed class OrderDetail
private OrderDetail() ... } }

Answer: A

Question: 36

You create Web-based client applications. You are creating a class library. The class library will be used to read and write data in the following three tables that are located in the Northwind database: CustomersOrdersOrderDetails The structure of the three tables is shown in the following diagram. (Click the Exhibit button.)



You need to ensure that the interfaces of the three classes accurately represent the connections between the tables in the database. Which design should you choose?

A - The Customer class contains a method called CreateOrder. The Order class contains a method called AddDetail. B - The Customer class contains a collection of orders. The Order class contains a collection of OrderDetails tables. C - The Customer class contains a property called Orders that returns an array of OrderIDs. The Order class contains a property called Details that returns an array of Details. D - Create three classes: Customer, Order, and OrderDetail.

Answer: B

Question: 37

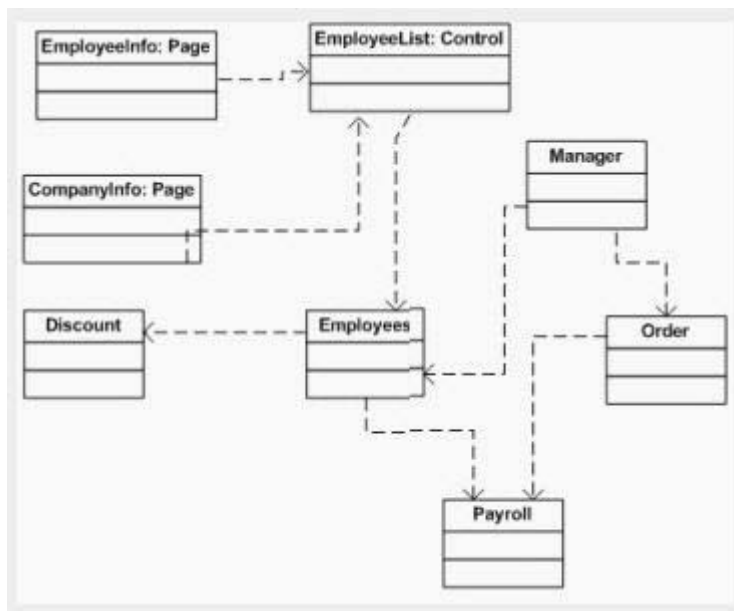
You develop Web-based client applications. You are developing a Web page that will retrieve large amounts of data from a remote database. You need to ensure maximum scalability. What should you do before calling the code to retrieve the data?

A - Set the Async attribute of the Page directive = true and call the ThreadPool.QueueUserWorkItem method in the Load event of the page. B - Set the Async attribute of the Page directive = true and call the AddOnPrePenderCompleteAsync method in the Load event of the page. C - Call the ThreadPool.GetAvailableThreads method in the PreLoad event of the page. D - Call the ThreadPool.QueueUserworkItem method in the PreLoad event of the page.

Answer: B

Question: 38

You create Web-based client applications. You are designing an Employee class for an application. Your company Web site will use the application. You need to analyze the architecture diagram. You also need to decide which components will use the Employee class. The architecture diagram is shown in the following exhibit. (Click the Exhibit button.)



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

- A - the EmployeeList control
- B - the EmployeeInfo page
- C - the Manager class
- D - the Order class
- E - the CompanyInfo page

Answer: A, C

Question: 39

You create Web-based client applications. You are creating a data access component. Several Web user controls will use the component to populate bound controls from a data source. The data source has end-user inputs. You need to ensure that the data source communicates all relevant information to the Web user controls that call your component. How should you accomplish this goal?

- A - When the data access component makes a successful call to the data source, raise and throw an exception to the Web user controls to indicate success.
- B - When the data access component makes an unsuccessful call to the data source, raise and throw an exception to the Web user controls to indicate failure.
- C - When the data access component makes a successful call to the data source, raise and throw an exception to the Web page to indicate success.
- D - When the data access component makes an unsuccessful call to the data source, handle it internally by using the data access component to indicate failure.

Answer: B

Question: 40

You create Web-based client applications. You create a component named Orders for a company named Northwind Traders. This component is used to retrieve and update data in the Orders table of the company's database. The schema of the Orders table is as shown in the following

Retrieve all orders for a Customer. Retrieve all orders for an Employee. Retrieve all orders that are shipped. An instance of the Order class represents a single order that is identified by the OrderID

Ascertain whether an order is shipped Modify the RequiredDate field of the Order table for an existing order. You need to create the design for the component. What should you do? To answer, drag the appropriate members to the correct locations in the member type column.

Answer:

Answer:

Orders

OrderID

CustomerID

EmployeeID

OrderDate

RequiredDate

ShippedDate

ShipVia

Freight

ShipName

ShipAddress

ShipCity

ShipRegion

ShipPostalCode

ShipCountry

Members

public static Order[] GetOrdersForCustomer(int CustomerID)

public bool OrderHasShipped(int EmployeeID)

public bool DeleteOrder(int EmployeeID)

public Order GetOrdersForCustomer(int EmployeeID)

public bool UpdateOrderDate(datetime NewRequiredDate)

public Order GetOrdersForEmployee(int CustomerID)

public static Order[] UnshippedOrders ()

public Order UnshippedOrders(int EmployeeID)

public bool UpdateOrderDate(int EmployeeID, datetime NewRequiredDate)

public bool DeleteOrder()

public bool OrderHasShipped

public static Order[] GetOrdersForEmployee(int EmployeeID)

public Orders(int OrderID)

Member Type

Methods

public static Order[] GetOrdersForCustomer(int CustomerID)

public bool OrderHasShipped(int EmployeeID)

public bool DeleteOrder(int EmployeeID)

public Order GetOrdersForCustomer(int EmployeeID)

public bool UpdateOrderDate(datetime NewRequiredDate)

public Order GetOrdersForEmployee(int CustomerID)

public static Order[] UnshippedOrders ()

Property

public Order UnshippedOrders(int EmployeeID)

public bool UpdateOrderDate(int EmployeeID, datetime NewRequiredDate)

public bool DeleteOrder()

public bool OrderHasShipped

public static Order[] GetOrdersForEmployee(int EmployeeID)

public Orders(int OrderID)

Question: 41

You create Web-based client applications. You are creating a component named Product. The component will represent data in the products table of a database. The ProductID field is the primary key of the products table. The Product ID is an integer value that is generated by the database. The products table contains two fields named ProductName and CurrentPrice, which do not accept null values. You need to design an interface for the Product class. You also need to ensure that upon instantiation the component will either retrieve an existing product from the database or add a new record to the products table. Which design feature should you choose?

A - The constructor includes a Soolean parameter named CreateNew and an integer parameter named ProductID. B - The constructor is overloaded such that one version includes a ProductID parameter and another version contains no arguments. C - The constructor is overloaded such that one version includes a ProductID parameter and another version includes ProductID, ProductName, and CurrentPrice parameters. D - The constructor is overloaded such that one version includes a ProductID parameter and another version includes ProductName and CurrentPrice parameters.

Answer: D

Question: 42

You create Web-based client applications. You have created a Web-based application that retrieves data from a database. Hundreds of users access this Web-based application. A performance baseline has been created and integrated into a maintenance plan for the application. You find that the Web-based application consumes more resources than expected. You use instrumentation to profile the Web-based application and discover that resources are not being released correctly. You modify the code and profile the Web-based application again. You find the performance metrics appear to be within the requirements. You need to identify your next action. What should you do?

A - Stop and discontinue the use of instrumentation. Review the code on a monthly basis. B - Continue to profile the application on an ongoing basis.

C - Disable instrumentation at this time. Profile the application on a daily basis. D - Disable instrumentation at this time. Profile the application in accordance with the maintenance plan.

Answer: D

Question: 43

You develop Web-based client applications. You are developing a custom Web control named ShoppingCart. The ShoppingCart control tracks the products in a users shopping cart. The ShoppingCart control contains a read-only property named SubTotal. The pages that use the ShoppingCart control compare the SubTotal property with the users credit limit before attempting to add any new items to the users shopping cart. The ShoppingCart control also contains display properties, such as Font, Color, and DisplayDirections. These properties are not critical to the functionality of the control. You need to establish how to implement the SubTotal property and the display properties in the ShoppingCart control. What should you do?

A - Use the ControlState state to persist the SubTotal property and the ViewState state to persist the display properties. B - Use the ViewState state to persist the SubTotal property and the ControlState state to persist the display properties. C - Retrieve the value for the SubTotal property from the database, and persist the display properties by using the ControlState state. D - Use the ViewState state to persist the SubTotal property, and persist the display properties by using the ViewState.

Answer: A

Question: 44

You create Web-based client applications. You are designing a procedure to retrieve product data from a database. The product data will be displayed on several pages of your Web site. The data will be filtered and sorted by different parameters and will be displayed in grids with paging. Users will not be able to modify the data that is displayed on the Web site. The product data is stored in a database on an instance of Microsoft SQL Server that is located on a different server. The database is configured to support SQL cache invalidation. You need to ensure that the data is retrieved such that the pages of the Web site load as quickly as possible. What should you do?

A - Use a SqlDataReader object. B - Use a DataTableReader object. C - Use a DataTable object. D - Use a SqlDataAdapter object.

Answer: C

Question: 45

You create Web-based client applications. You are creating a page for a Web-based application.

You must ensure that the page meets the following requirements:

Uses forms authentication to validate users.
Deploys on a single Web server. Is highly secure. Gives higher priority to security than speed.

You need to recommend a configuration setting for your page. Which configuration setting should you choose?

A -<machinekey validationKey="AutoGenerate" decryptionKey="AutoGenerate" decryption="Auto" validation="SHA1" />
 B -<machinekey validationkey="AutoGenerate" decrgptionKey="AutoGenerate" decryption="Auto" validation="MD5" />
 C - <machineKey v alidationKey="AutoGenerate IsolateApps" decryptionKey="AutoGenerate IsolateApps" decryption="Auto" validatton="MD5" />
 D - <machineKey validationKey="AutoGenerate ,IsolateApps" decryptionKey="AutoGenerate IsolateApps" decryption="Auto" validation="SHA1" />

Answer: D

Question: 46

You create components for Web-based client applications. You are creating a SankAccount class. The BankAccount class contains an AccountNumber property and a CreateAccount method. The CreateAccount method is used to create a new account. The method generates a unique random value for the actNumber field. You need to ensure that the BankAccount class is extendable, and that it serves as the base class for other derived classes. You also need to ensure that each derived class can have its own guidelines to generate account numbers in the CreateAccount method. Which code segment should you use?

A - public class BankAccount { protected long actNumber; public long AccountNumber { get{ return actNumber } } public virtual BankAccount CreateAccount() { ... } }

B - public class BankAccount { private long actNumber; public long AccountNumber{ get{ return actNumber; } } public virtual BankAccount CreateAccount() { ... } }

```

C - public class BankAccount {
    protected long actNumber;
    public long AccountNumber
    get{
        return actNumber,
    }
}
    public BankAccount CreateAccount() {
        ...
    }
}
D - public class BankAccount
{
    private long actNumber;
    public long AccountNumber {
        get {
            return actNumber;
        }
    }
    public BankAccount CreateAccount() {
        ...
    }
}

```

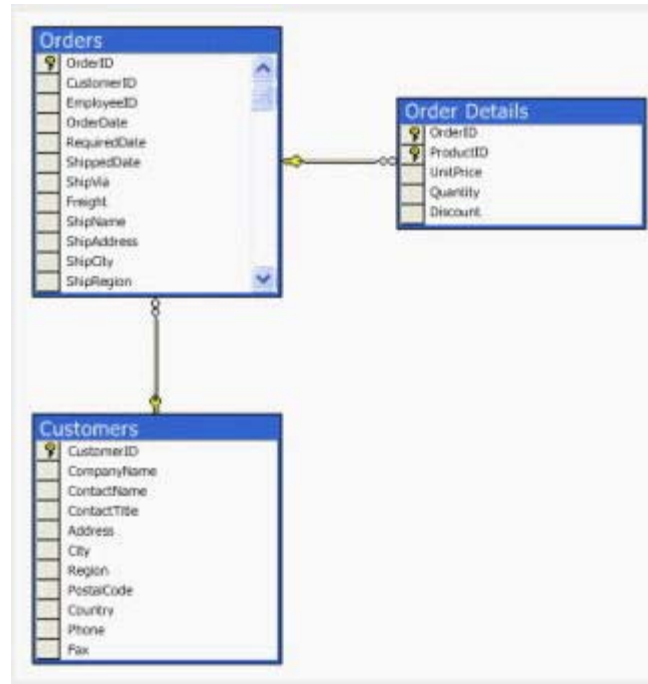
Answer: A

Question: 47

You create Web-based client applications. You are creating a class library. The class library will be used to read and write data in the following three tables that are located in the Northwind database:

Customers
Orders
OrderDetail
S

The structure of the three tables is shown in the following diagram. (Click the Exhibit button.)



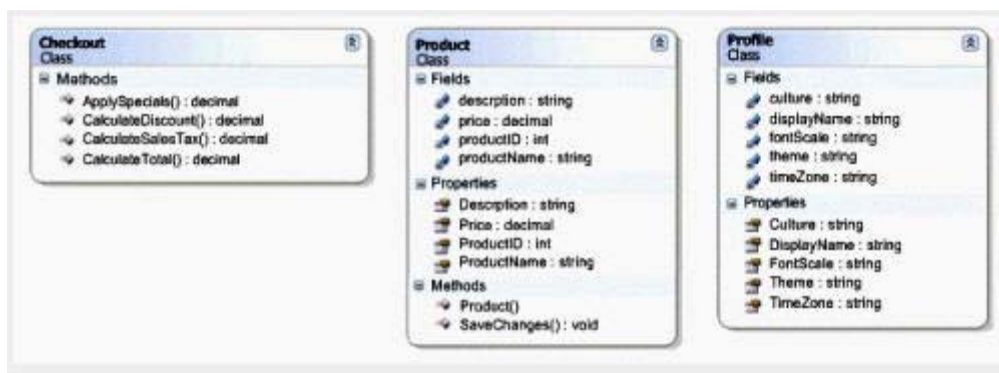
You need to ensure that the interfaces of the three classes accurately represent the connections between the tables in the database. Which design should you choose?

A - The Customer class contains a method called CreateOrder. The Order class contains a method called AddDetail. B - The Customer class contains a collection of orders. The Order class contains a collection of OrderDetails tables. C - The Customer class contains a property called Orders that returns an array of OrderIDs. The Order class contains a property called Details that returns an array of Details. D - Create three classes: Customer, Order, and OrderDetail.

Answer: B

Question: 48

You create Web-based client applications. You create an e-commerce application. Users are permitted to customize the application. All user settings and product information of the application are stored in a database. The class diagram for the application is as shown in the Exhibit. (Click the Exhibit button.)



You need to identify the correct logical layer in which each class resides based on the class diagram. Which set of associations should you identify?

A - The Checkout class is in the Business Layer. The Product class is in the Data Layer. The Profile class is in the Data Layer. B - The Checkout class is in the Data Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer. C - The CheckOut class is in the Business Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer. D - The Checkout class is in the Presentation Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.

Answer: C

Question: 49

You create Web-based client applications. You are creating a business logic component. The component has to pass any exception exactly as received to the Web Form procedure that calls the component. The component also has to attach the custom information to the caught exception before the custom information is passed to the Web Form procedure. You need to ensure that the component permits the consumer to deal with the exception by using the least coding effort. What should you do?

A - Catch the original exception and throw it to the Web Form procedure. Include the custom information as the Data property.
B - Catch the original exception and throw a new exception to the Web Form procedure. Include the custom information as the Data property and the original exception as the InnerException property.
C - Catch the original exception and throw a new exception to the Web Form procedure. Include the custom information as the Message property.
D - Catch the original exception and throw a new exception to the Web Form procedure. Include the custom information as the Message property and the original exception as the InnerException property.

Answer: A

Question: 50

You create Web-based client applications. You are creating a class named Product. The Product class will be used by a Web-based application to retrieve and modify product information. When you create an instance of the Product class, you retrieve the current information from the Products table. The Product class contains a static member named CreateNewProduct. The CreateNewProduct method is used to add a new product to the database and return the primary key. The Products table contains the following fields:

ProductID (primary key)
ProductName
Description CategoryID
CurrentPrice

You need to create the constructor for the Product class. Which code segment should you use?

A - public Product(int ProductID, string ProductName, string Description, int CategoryID, decimal CurrentPrice) { ... }

B - public Product(int ProductID, string ProductName) {
... }

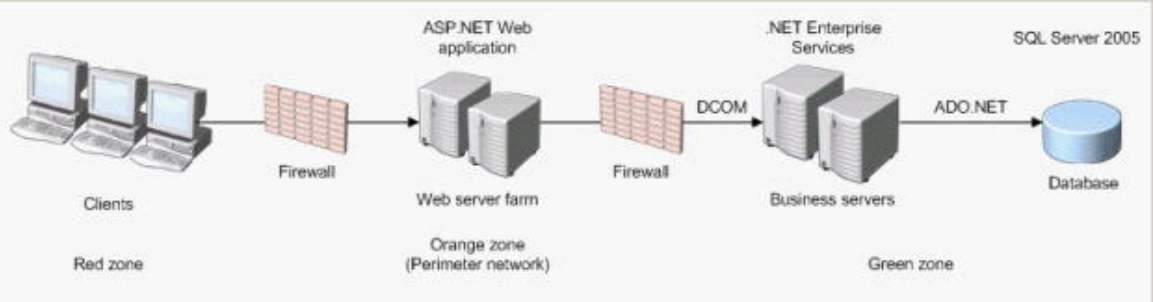
C - public Product()
... }

D - public Product(int ProductID)

Answer: D

Question: 51

You create Web-based client applications. You create a Web-based application for your company. Partner companies will also access the application. You evaluate the deployment plan as shown in the following exhibit. (Click the Exhibit button.)



Company policy states that permission is required to open port 80 and port 443 on the company firewall. The ports are to be opened only to specified servers. This policy applies to the firewall that separates the red zone from the perimeter network. This policy also applies to the firewall that separates the perimeter network from the intranet. Port 80 is already open in the outer firewall. You need to modify the deployment plan to meet the company policy. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

A - Ask the firewall administrator to open port 80 in the firewall that separates the perimeter network from the intranet to the business servers. B - Ask the firewall administrator to open port 80 in the firewall that separates the perimeter network from the intranet to the business servers and the database server. C - Add a Web service layer to the business servers. D - Move the business servers into the perimeter network. E - Configure the database server to use port 80. F - Make the Web server farm a member of the Active Directory domain.

Answer: A, C

Question: 52

You create Web-based client applications. The application permits users to upload files to a network share. When anonymous users use the upload feature from the Web-based application, a custom error page is displayed. You need to ensure that anonymous users are able to use the application. What should you do?

A - Change the ASP.NET configuration to impersonate a user account that has write permissions to the network share. B - Change the IIS application pool to use the System account. C - Change the Web.config file to impersonate the user account from the client account. D - Change the Machine.config file to use the System account.

Answer: A

Question: 53

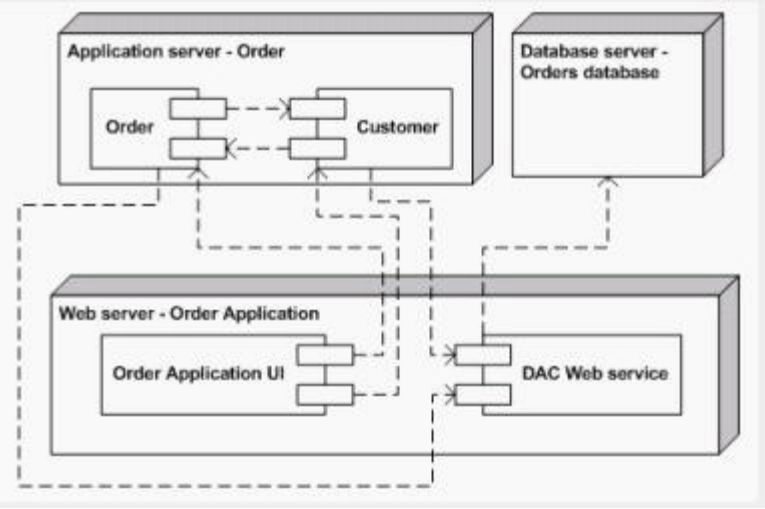
You create Web-based applications. You are creating an application for purchase order management. The application is composed of a Web client, business logic components, a Data Access Component (DAC) Web service, and a central database.

The application design meets the following specifications:

The Web-based client application is used for end-user interaction. The Web-based client application uses two business logic components named Order and Customer.

Each customer can have multiple orders. Each order belongs to a single customer. The business logic components use a DAC Web service.

The business logic components make data available to the Web-based client application. You receive a deployment diagram as shown in the following exhibit. (Click the Exhibit button.)



You need to evaluate the diagram to ensure that it complies with the specifications. What should you conclude?

A - The diagram complies with the specifications. B - The diagram is incomplete. It needs a dependency from the Web client component to the Microsoft Data Access component. C - The diagram is incomplete. It needs a dependency from the Data Access component to the Order component. D - The diagram is incomplete. It needs a dependency from the Order component to the Web-based client application.

Answer: A

Question: 54

You create Web-based client applications. You deploy an application for a company. The application enables customers to access mobile phone invoices. Users report that the application fails to respond and time-outs occur. You test the application and find that the reports are valid. You need to identify the cause of the problem. Which analysis strategy should you use?

- A - Start the performance Microsoft Management Console snap-in. Change to the Report view. Add all ASP.NET performance object counters. Look for high counts of requests queued and requests timed out.
- B - Start the event viewer Microsoft Management Console snap-in. Switch to the Application view. Look for high counts of number of requests timed that are shown at configured intervals.
- C - Start the performance Microsoft Management Console snap-in. Change to the Report view. Add all the network interface performance object counters. Look for high counts of requests queued and requests timed out.
- D - Open the Trace.axd file. Scroll to the performance count category. Look for high counts of requests queued and requests timed out.
- E - Start the event viewer Microsoft Management Console snap-in. Switch to the System view. Apply a filter to show only ASP.NET related events. Look for high counts of number of requests timed out that are shown at configured intervals.

Answer: A

Question: 55

You create Web-based client applications. You are creating an application that must access different databases depending on whether the application is in demonstration, production, or test mode. The mode is stored in an environment variable.

The configuration file contains the following settings.

```
<connectionStrings> <add name = "ProdDB" connectionString = "Data Source = server; Initial Catalog = ProdDatabase; Integrated_Security = true" providerName = "System.Data.SqlClient" /> <add name "DemoDB" connectionString = "Data Source = server; Initial Catalog = DemoDatabase; Integrated_Security = true" providerName = "System.Data.SqlClient" /> <add name = "TestDB" connectionString = "Data Source = server; Initial Catalog = TestDatabase; Integrated_Security = true" providerName = "System.Data.SqlClient" /> </connectionStrings>
```

You need to ensure that changing the mode will not require you to change the configuration file. Which code segment should you use?

A - public string GetConnectionString() #if PROD return
WebConfigurationManager.ConnectionStrings["ProdDB"].
ConnectionString; #elseif DEMO return
WebConfigurationManager.ConnectionStrings["DemoDB"].
ConnectionString; #else return
WebConfigurationManager.ConnectionStrings["TestDB"].
ConnectionString; #endif }

B - public string GetConnectionString() return
WebConfigurationManager.ConnectionStrings[
Environment.GetEnvironmentVariable("WebAppModeDB")].
ConnectionString; }

C - public string GetConnectionString() { return
ConfigurationSettings.AppSettings[
Environment.GetEnvironmentVariable("WebAppModeDB")]. } }

D - public string GetConnectionString() { #if PROD return
WebConfigurationManager.ConnectionStrings["ProdDB"].
ConnectionString; #elseif DEMO return
WebConfigurationManager.ConnectionStrings["DemoDB"].
ConnectionString; #else return
WebConfigurationManager.ConnectionStrings["TestDB"]. #endif }

E - public string GetConnectionString() { return
WebConfigurationManager.ConnectionStrings["Database"]
ConnectionString; }

Answer: B

Question: 56

You create Web-based client applications. You are creating a component. The component implements a document explorer for navigating the document tree and selecting documents for editing. The component will be used as a user interface element in your application as well as in other developers applications. You need to include the component easily on any page of your application or in any other developers application. You also need to permit other developers to use your component in the visual designer. How should you create the component?

A - Create the component as an .aspx page that has embedded code blocks to draw the document tree and handle events. Instruct other developers to access your component by using ASP.NET #include statements.

B - Create an ASP.NET master page that includes your component as a document explorer in the left navigation bar. Instruct other developers to create their pages as content pages that are associated to your master page.

C - Create an ASP.NET user control to present the document explorer. Instruct other developers to include the source code for your user control in their projects. D - Create an ASP NET Server control to present the document explorer. Instruct other developers to reference your server control from their projects.

Answer: D

Question: 57

You create Web-based client applications. You are creating a Web-based discussion forum. The discussion forum will permit users to post and reply to discussion threads after logging on. You create the authentication mechanisms of your Web site. Microsoft SQL Server 2005 and the Active Directory directory service will continue to be used interchangeably for authentication. You need to provide a method for the users of the discussion forum to register. You also need to maintain the capability to use multiple authentication methods when the users register. Which method should you use?

A - Create a custom component that provides a new user registration form and stores the results in XML that matches a defined schema, which can then be imported into any desired authentication scheme.

B - Create a form that contains standard text boxes for the required user information. Use the post back of the form to pass the information to a custom class that is associated with the selected authentication scheme of the particular Web forum.

C - Create a custom component that consumes the ASP.NET 2.0 Membership Provider Model and create custom Membership Providers. D - Create a form that contains a CreateUserWizard control and configure Membership Providers.

Answer: D

Question: 58

You create Web-based client applications. You create an application that will be used by customers to browse the product catalog of an Internet-based store and buyproducts. The application must meet the following requirements:

Permit registered customers of the store to change display settings and personal information. Store the updated information and associate the information with the logged-on customer. You need to choose appropriate technologies to meet these requirements.

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

A - SSL B - Editor
parts C - Catalog
parts D -
Userprofiles E -
Themes

Answer: D, E

Question: 59

You create Web-based client applications. You are creating a Web page that permits a user to enter information to apply for a loan. The amount that the user is permitted to request depends upon the type of the loan and the term of the loan. The Web page must perform the following tasks: Ensure that the user enters a valid loan amount.

Prevent unnecessary trips to the server. You need to implement an appropriate validation strategy for the application. What should you do?

A - Validate the data by using client-side scripting. B - Validate the data by using the CustomValidator control. C - Validate the data by using the PangeValidator control and the CompareValidator control. D - Validate the data after it is submitted to the server.

Answer: B

Question: 60

You create Web-based client applications. You are designing a client application that will offer real-time multimedia services. The application must meet the following requirements: Enable playback of large video files.

Perform consistently across connection speeds that vary. Control the amount of bandwidth that is consumed by each connection. You need to recommend an appropriate solution. What should you recommend?

A - Use IIS to download multimedia files to play later. B - Use Microsoft Windows Media Services to download multimedia files to play later. C - Use Microsoft Windows Media Services to stream multimedia files. D - Use IIS to stream multimedia files.

Answer: C

Question: 61

You create Web-based client applications. You are evaluating the configuration architecture of an application that connects to a database by using a connection string. This connection string contains a user name and a password. You place the connection string in the <connectionStrings> section of the Web.config file. You want to ensure that the connection string is protected. You need to decide the format in which to store the configuration attributes. What should you recommend?

A - Encrypting the <protectedData> section, the <connectionStrings> section, and the <CipherData> section of the Web.config file. B - Encrypting the entire Web .config file. C - Encrypting the <connectionStrings> section of the Web.config file. D - Encrypting the <connectionStrings> section and the <protectedData> section of the

Web.config file.

Answer: C

Question: 62

You create Web-based client applications. You identify a reusable software component that you need to use in your application. The component contains functionality to retrieve data from a database. However, the component does not include the functionality to change the color of a table cell when the user moves the mouse cursor into the cell. You need to add the effect of mouse cursor movement to the component in the most efficient way possible. What should you do?

A - Create a new component that inherits from the existing component. Add the extended functionality of mouse cursor movement to the new component.

B - Create a COM+ wrapper for the reusable software component. Add the extended functionality of the mouse cursor movement in the wrapper. C - Create a new component and make the existing component inherit from the new component. Add the extended functionality of the mouse cursor movement to the new component. D - Create your own custom reusable software component. Add the extended functionality of the mouse cursor movement to the new component.

Answer: A

Question: 63

You create Web-based client applications. You create an ASP.NET Web application that creates and manages online advertising campaigns. The ASP.NET Web application uses a Microsoft SQL Server 2005 database. You require the ASP.NET Web application to track the efficiency of the upcoming campaigns by comparing advertising results with campaign parameters. This requires adding a Web form that performs the following tasks:

Uses a target URL for all online advertising.
Logs the referrer URLs. Provides live reporting of referral data.

You need to identify the most effective storage mechanism to log the referral data. Which mechanism should you choose?

A - Text files B -
Application log C -
The database D -
IIS log files

Answer: C

Question: 64

You create Web-based applications. You create a loan application form. The loan application form is used to calculate the monthly payment of loans. The monthly payment is based on the loan amount, rate, and number of months. The form contains four text boxes and a button. There are no other controls in the form. The application event handler has the following lines of code. (Line numbers are included for reference only.)

```
01 protected void GetPayment(object sender, EventArgs e) 02
try{ 03 decimal rate = decimal.Parse(txtRate.Text); 04 decimal
loanAmount = decimal.Parse(txtLoan.Text); 05 mt period =
int.Parse(txtPeriod.Text); 06 decimal payment =
CalcPayment(rate, loanAmount, period); 07 txtPayment.Text =
payment.ToString("C"); 08 } 09 catch (OverflowException ex) {
10 ... 11 } 12 catch (InvalidCastException ex) { 13 ... 14 } 15
catch (Exception ex) { 16 ... 17 }
```

15 }

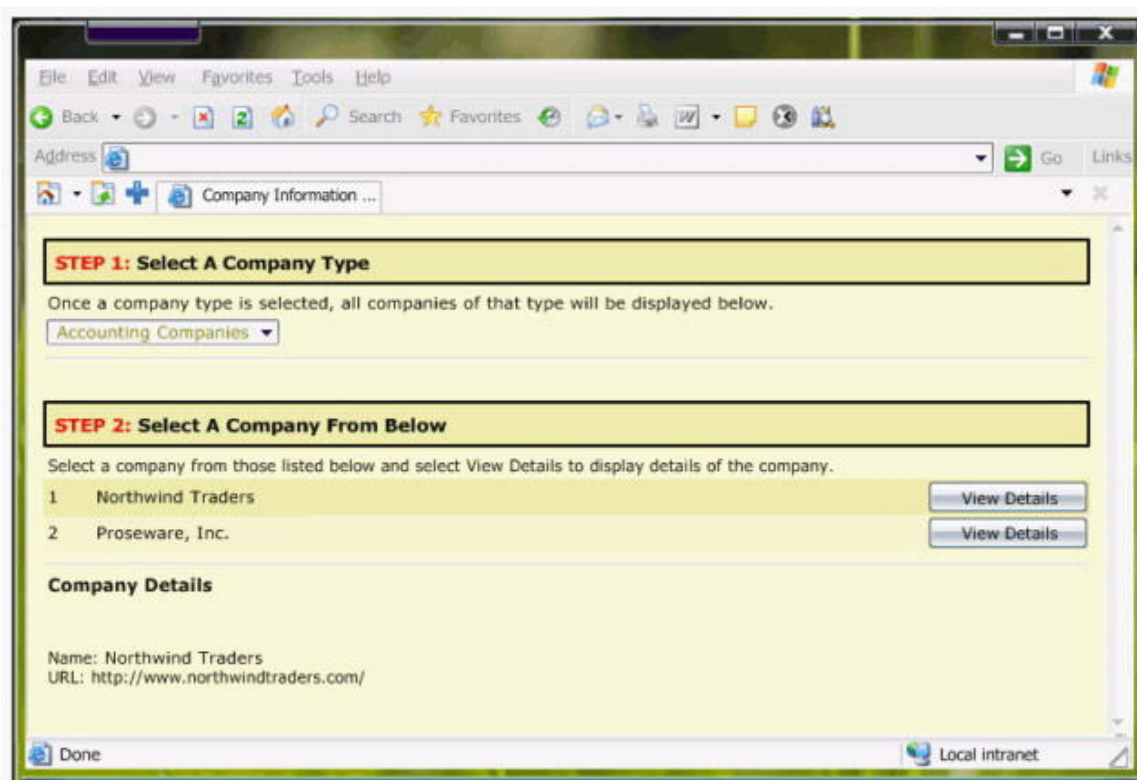
You must prevent exceptions whenever possible to meet the application requirements. You need to evaluate the current exception handling mechanism. What should you conclude?

A - The current exception handling mechanism meets the requirements. Nothing needs to be changed. B - The current exception handling mechanism does not meet the requirements. A required field validator and a range validator control must be added validate each text box before the button is clicked. C - The current exception handling mechanism does not meet the requirements. A required field validator control must be added to validate each text box before the button is clicked. D - The current exception handling mechanism does not meet the requirements. A regular expression validator control must be added to validate each text box before the button is clicked.

Answer: B

Question: 65

You create Web-based client applications. You create an ASP.NET Web form that lists detailed company information. The company information is stored in a Microsoft SQL Server 2005 database. The Web form displays a drop-down list box that prompts the user to select a company type. On selection of the company type, the name of each company in the selected company type is displayed along with a button next to it. The button permits detailed contact information to be displayed for the company. Each button that is displayed along with a company name has a Text property value that is named View Details. The button is dynamically created based on the company type selected by the user. Each click event of the button is programmed to call a method named ShowDetails. The ShowDetails method displays the company details. The prototype of the Web form is as shown in the following exhibit, (Click the Exhibit button.)



You test the Web form and find that the code seems to function properly. When you display the Web form and click the View Details button, nothing happens. You need to ensure that the Web form responds properly within the minimum amount of time. You also need to minimize coding effort. What should you do?

- A - In the Postback event handler for the company type drop-down list box, as each View Details button is dynamically created, call the Page_Load method to program the button into the ShowDetails method.
- B - In the Postback event handler for the company type drop-down list-box, as each View Details button is dynamically created, call the Page_Init event handler to program the button into the ShowDetails method.
- C - Create a Web User control that contains a preconfigured button that has the Text property set to View Details. Modify the code written for the control to call the ShowDetails method of the parent form. Instantiate instances of the control as necessary in the Postback event handler for the company type drop-down list box.
- D - Create a Web User control that contains a preconfigured button that has the Text property set to View Details. Modify the code written for the control to call the ShowDetails method of the parent form. Instantiate instances of the control as necessary in the Page_Init event handler for the company type drop-down list box.

Answer: C

Question: 66

You create Web-based client applications. You create an ASP.NET Web application. Five hundred users will access the Web-based application simultaneously. The application uses session variables to persist user data. You monitor the application by using System Monitor. You need to identify a counter that will warn you of the problems that you are most likely to face while monitoring. Which counter should you use?

A - ASP.NET ApplicationsAnonymous requests/sec
B - ASP.NET ApplicationsCache total entries C -
MemoryAvailable megabytes D - Physical DiscDisc
reads/sec

Answer: C

Question: 67

You create Web-based client applications. You create a public function for your application that must connect to a data source. The public function must also perform a series of updates to the data. Some of the operations will result in exceptions if there are errors. Your exception handling mechanism must meet the following requirements: Callers of the function must be able to ascertain whether the function succeeded or failed. If the function failed, callers of the function must be able to find where and why it failed. If there is any error, the function must immediately stop processing. You need to identify the best exception handling mechanism. What should you do?

A - Return an application-specific error code indicating overall success or failure of the function1 with sub-codes indicating the stage where failure occurred.
B - Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Do not return a status code or throw an exception if the function succeeds.
C - Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Return a status code detailing whether the function succeeds or does not succeed.
D - Return an application-specific exception that includes any caught exceptions or return null if the entire function succeeds.

Answer: B

Question: 68

You create Web-based client applications. You are creating an application to display the local weather details at the bottom of the home page. You include a third-party software component for this purpose. On testing, you find that the home page fails to load and throws a cryptic error message. The error message displays line numbers that represent the lines that call the third-party software component. You need to ensure that the home page loads even if the local weather details fail to display. You also need to ensure that the home page displays a message if the local weather report fails to display. You need to implement the solution in the shortest possible time. Which approach should you choose?

A - Reference the third-party component inside the Try clause of a Try-catch-finally statement. In the Catch clause, write code to display a message saying the weather is unavailable. B - Find a new third-party software component that can insert messages when the weather is unavailable. C - Reference the third-party component inside the If clause of an If-then-else statement. In the Else clause, write code to display a message saying the weather is unavailable. D - Call the Dispose method of the component after you use it.

Answer: A

Question: 69

You create Web-based client applications. You create a Web site that will be used to simulate different types of loans. You are writing a method to calculate the payment on a simple loan. You write the following lines of code for the method. (Comments are included for reference only.)

```
public static decimal Payment(decimal loanAmount, mt period, decimal rate) {  
if (!(loanAmount > 0)||!(period> 1)||!(rate > 0)) { //Line A throw new  
Exception("Invalid input!"); // Line B }else{ return 0M; // Line C: return a  
calculated payment } } public static decimal CheckBalance(ulong accountID) {  
return 0M; // Line D: return calculated balance
```

You write the following code for the unit test. [TestMethod()]
public void PaymentTest() { decimal payment =
Loan.Payment(100000,360,10); // Line E
Assert.AreEqual(payment, 877.57M); // Line F }

You enable coverage testing for this unit test. You need to identify the coverage of your test.

Which lines are covered by the test?

A - Lines commented A, B, and C B -
Lines commented A and C C - Lines
commented A, B, C, D, E, and F D - Lines
commented A, B, C, E, and F

Answer: B

Question: 70

You create Web-based applications. The application is installed in a Network Load Balancing cluster. You are analyzing a bug report. When a failure occurs in the application, the client sometimes receives a correctly formatted friendly error page as expected. At other times, the client receives an exception stack with the error message, which is not expected. You need to identify the configuration setting that causes the unexpected response. Which configuration setting should you identify?

A - <compilation debug="true" />
B - <customErrors mode="On" />
C - <compilation debug="false" />
D - <customErrors mode="Off" />

Answer: D

Question: 71

You create Web-based client applications. You are reviewing a Web application page that populates the list of all employees for your company. The following code segment loads the list of employees from a database.

```

private static List<CEmployee> LoadEmployeesFromDatabase() {
    DbProviderFactory factory =
        DbProviderFactories.GetFactory("System.Data.SqlClient");
    List<CEmployee> lstEmployees = null;

    // Extract the connection string from configuration data
   ConnectionStringSettings connString =
        ConfigurationManager.ConnectionStrings["EmployeeStore"];

    // Create the connection and open it
    DbConnection conn = factory.CreateConnection();
    conn.ConnectionString = connString.ConnectionString;
    conn.Open();

    // Get the employees. The connection to the database is
    // given as parameter
    lstEmployees = GetEmployees(conn);

    // Close the connection to the employee data store
    Conn.Close();
    return lstEmployees;
}

```

You analyze the code segment. You find that the database connection fails to close properly when the GetEmployees method throws an exception. You need to recommend a change in the code segment to ensure that every possible code path closes the database connection. Which code segment should you recommend?

A - // Create the connection and open it using (DbConnection conn = factory.CreateConnection()) { conn.ConnectionString = connString.ConnectionString; conn.Open(); //Get the employees. The connection to the database //is given as parameter lstEmployees = GetEmployees(conn); }

B - // Create the connection and open it DbConnection conn = factory.CreateConnection() conn.ConnectionString = connString.ConnectionString; conn.Open // Get the employees. The connection to the database is // given as parameter lstEmployees = GetEmployees(conn); if (lstEmployees == null) { conn.Dispose(); } else{ conn.Close(); }

```

C - HandleCollector coll =
    new HandleCollector(Connections" , 0 5);
    // Create the connection and open it
    DbConnection conn = factory.CreateConnection();
    conn.ConnectionString = connString.ConnectionString;
    conn.Open();
    coll.Add();
    // Get the employees. The connection to the database is // given as parameter
    lstEmployees = GetEmployees(conn);
    // Close the connection to the employee data store
    Conn.Close();
Coll.Remove(); D - // Create the
connection and open it
    using (IDisposable factory = DbProviderFactories.GetFactory("System.Data.SqlClient") as
    IDisposable)
    {
        DbConnection conn = factory.CreateConnection();
        conn.ConnectionString = connstring.ConnectionString;
        conn.Open();
        // Get the employees. The connection to the database
        // is given as parameter
        lstEmployees = GetEmployees(conn);
    }

```

Answer: A

Question: 72

You create Web-based client applications. You are creating a Web site that displays product information for your company. The application must meet the following requirements: Support at least 20 concurrent users. Consume less than 40 percent of the CPU time during peak usage. Process at least five requests per second during peak usage, which is estimated to be between 20 and 30 users.

A Web test is created to verify the requirements by recording how a regular user would interact with the site. Then, based on the Web test, a load test is created. The load test simulates 30 users who execute the Web test simultaneously. You need to decide whether the current strategy is enough to verify the requirements, and recommend changes. What should you recommend?

A - The current strategy is enough to test the requirements. B - Create a unit test for the processor intensive methods. C - Create a second load test for 20 simultaneous users. D - Delete the load test and use the Web test with system monitor.

Answer: A

Question: 73

You create Web-based client applications. You are modifying the home page of an existing Internet application by adding a third-party component. You need to decide what type of testing is required. Which two testing techniques should you choose? (Each answer presents part of the solution. Choose two.)

A - unit testing of the third-party component B - integration testing with the third-party component C - regression testing of the third-party component

D - certification testing of the third-party component E - performance testing with the third-party component

Answer: B, E

Question: 74

You create Web-based client applications. You are creating an application for a Web site. The Web site uses the application to simulate mortgage loans. Your application calculates the monthly payment for loans. The monthly payment is based on the number of payments, rate, and the amount of loan. You need to create the unit testing strategy for the application. What should you do?

A - Create a test that verifies the accuracy of the application based on a list of valid values. B - Create a test that verifies the integration points of the application. C - Create a test that verifies that the application consumes no more than 40 percent of CPU time. D - Create a test that verifies that the application consumes no more than 512 MB of RAM.

Answer: A

Question: 75

You create Web-based client applications. You are creating an Internet banking application. Bank account holders will use this application. The application uses a set of Web services to retrieve account information. One of these Web services is used to retrieve a list of transactions. This Web service returns the list as an XML document.

The application must meet the following requirements: Data from the XML document has to be retrieved, formatted, and displayed in the user interface. Any changes to the way the data is formatted and to the amount of data displayed should not require the code to be recompiled. The current design of the application specifies that the XML document will be accessed through an XmlDocument object, and XPath expressions will be used to extract portions of the document to populate controls on a Web form. You need to evaluate the current design of the application and make recommendation for changes, if required. What should you recommend?

A - The current design meets the requirements. B - The current design does not meet the requirements. Use an XSLT file to transform the XML document and display the result on a Web form by using an XML control. C - The current design does not meet the requirements. Use a cascading style sheet (CSS) file to format the output of the current Web form. D - The current design does not meet the requirements. Generate a DataSet object from the XML document and bind the dataset to a DataGrid control on a Web form. E - The current design does not meet the above requirements. Generate a DataTable object from the XML document and bind the DataTable object to a DataGrid control on a Web form.

Answer: B

Question: 76

You create Web-based client applications. You are designing a new Web site for your company. You need to evaluate the design concept for the main page, default.aspx. The default.aspx page contains static information, except for one data grid that displays information about the company's products. The data grid will retrieve the data from a component. The component will retrieve the data from a stored procedure. The page has the appropriate permissions to the Microsoft SQL Server database. The application design must achieve the following goals without altering the data component

The default.aspx page must load quickly. The default.aspx page must contain the latest data from the database. You decide to use a sqlCacheDependency attribute to ensure that the default.aspx page always displays the latest data in the grid. You need to ascertain whether the use of the sqlCacheDependency attribute meets the requirements of this application. Which rationale should you choose?

A - The use of the sqlCacheDependency attribute is not feasible. The sqlCacheDependency attribute must be used in the component and not on the page. B - The use of the sqlCacheDependency attribute is not feasible. The sqlCacheDependency attribute cannot be used with a stored procedure.

C - The use of the sqlCacheDependency attribute is feasible. The sqlCacheDependency attribute can be used by including a sqlDependency attribute in the @OutputCache directive of the page.

D - The use of the sqlCacheDependency attribute is feasible. The sqlCacheDependency attribute can be linked to the data component that is used on the page.

Answer: C

Question: 77

You create Web-based client applications. You administer a large ASP NET Web application that is hosted by using IIS. The application must meet the following requirements: Permit all users to log on by using a Web page that is integrated into the application. The security configuration must accommodate the largest number of browsers possible. You need to make recommendations for a security plan that meets the application requirements. What should you recommend?

A - Configure IIS to use Basic authentication. B - Configure IIS to use Integrated Windows authentication. C - Set the mode attribute of the authorization element in the Web.config file for the application to

Windows. A custom logon form should be created in the application and the classes in the System.Web.Security namespace must be used to manage the authentication process.

D - Set the mode attribute of the authentication element in the Web .config file for the application to Forms. A custom logon form should be created in the application and the classes in the System .Web.Securit'y namespace must be used to manage the authentication process.

Answer: D

Question: 78

You create Web-based client applications. You review an application that manages the medical information of patients. The information is confidential and needs to be stored by using the most secure method available.

The application encrypts patient data and stores it in database tables.

The application stores a document or image that is related to a patient in the following manner: The name of the item is stored in the database. The physical document or image is stored in the local file system. The application locates and retrieves the physical document or image based on the name that is returned from the database when the data for a patient is queried. You need to evaluate whether the current application design uses the most secure method available to store information and provide an appropriate recommendation. What should you recommend?

A - The current method of storage is the most secure one available.

B - The current method of storage is not the most secure one available. Documents and images must be stored in the database. C - The current method of storage is not the most secure one available. Patient data, documents, and images must be serialized and stored in XML.

D - The current method of storage is not the most secure one available. Patient data, documents, and images must be stored on a removable drive for quick removal in case of a security breach.

Answer: B

Question: 79

You create Web-based client applications. You are evaluating an application. The application displays data that is stored in XML files. The data changes periodically. The development team implements a complex caching solution to improve the performance of the application. However, the caching solution is identified as causing the performance of the application to drop to an unacceptable level. The caching solution also results in significant data latency. The application requirements state that the data that is displayed in the application must be close to real time. You need to ensure that the application design meets the requirements. You also need to ensure that least amount of code is used. Which rationale should you choose?

A - The application is not performing optimally. Discard the current caching solution in favor of ASP.NET page caching. B - The application is not performing optimally. Discard the current caching solution in favor of ASP.NET data caching. Configure a cache dependency to monitor the source file. C - The application is not performing optimally. Compile the current caching solution into its own assembly and add it to the global assembly cache. D - The application is performing optimally. A custom caching solution is the recommended approach.

Answer: B

Question: 80

You create Web-based client applications. Your company has an existing ASP.NET application that is currently deployed on a single server. The application manages state by using session variables and ViewState. The number of users for the application has significantly increased. You need to configure the application to accommodate the significantly increased traffic and to recover transparently from hardware failure. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

A - Implement network load balancing. B - Use matching machine keys in the Machine .config files. C - Use cookieless sessions. D - Implement sticky sessions. E - Configure Microsoft SQL Server as the location for state storage. F - Configure SSL.

Answer: A, B, E

Microsoft 70-547(V B)

Question: 1

You create Web-based applications. You are creating an Internet banking application. You write the following lines of code to represent a method in your application. (Line numbers are included for reference only.)

```
01 Public Sub Transfer(ByVal amount As Decimal, _  
ByVal account As BankAccount) 02 If Not (amount >  
0) Then 03 Throw New Exception("Invalid deposit  
amount!") 04 Else 05 Me.Withdraw(amount) 06  
account.Deposit(amount) 07 End If 08 End Sub
```

You use the Microsoft Visual Studio 2005 test feature to automatically generate the following unit test. (Line numbers are included for reference only.)

```
01 <TestMethod()> _ 02 Public Sub TransferTest() 03 Dim target As BankAccount = New  
BankAccount() 04 Dim transferTo As BankAccount = New BankAccount() 05  
target.Deposit(500) 06 target.Transfer(100, transferTo) 07 Assert.Inconclusive( _ "A method  
that does not return a value cannot be verified.") 08 End Sub You need to change the test  
method to return a conclusive result. Which line of code should replace the code on line 07  
of the unit test?
```

- A. Assert.AreEqual(400D, target.Balance)
- B. Assert.IsTrue(target.Balance <> 400D)
- C. Debug.Assert(target.Balance = 400D, "passed")
- D. Debug.Assert(target.Balance = 400D, "failed")

Answer: A

Question: 2

You create Web-based client applications. You are creating a Web site that displays product information for your company. The application must meet the following requirements: Support at least 20 concurrent users. Consume less than 40 percent of the CPU time during peak usage. Process at least five requests per second during peak usage, which is estimated to be between 20 and 30 users. A Web test is created to verify the requirements by recording how a regular user would interact with the site. Then, based on the Web test, a load test is created. The load test simulates 30

users who execute the Web test simultaneously. You need to decide whether the current strategy is enough to verify the requirements, and recommend changes. What should you recommend?

- A. The current strategy is enough to test the requirements.
- B. Create a unit test for the processor intensive methods.
- C. Create a second load test for 20 simultaneous users.
- D. Delete the load test and use the Web test with system monitor.

Answer: A

Question: 3

You create Web-based client applications. You are creating an online reporting application that must generate inventory restocking reports within 34 seconds. In the development environment, during a unit test, generation of the month-end report took 42 seconds. You need to recommend what action must be taken to validate the test results. What should you recommend?

- A. Update the performance requirements, and do performance testing in the production environment.
- B. Deploy a debug build of the code, and do performance testing in the staging environment.
- C. Update the code to meet the requirements, and do unit testing in the staging environment.
- D. Deploy a release build of the code, and do performance testing in the staging environment.

Answer: D

Question: 4

You create Web-based client applications. You create a Web site that will be used to simulate different types of loans. You are writing a method to calculate the payment on a simple loan. You write the following lines of code for the method. (Comments are included for reference only.)
Public Shared Function Payment(ByVal loanAmount As Decimal, _ ByVal period As Integer, ByVal rate As Decimal) As Decimal If Not (loanAmount > 0) OrElse _ Not (period > 1) OrElse _ Not (rate > 0) Then ' Line A Throw New Exception("Invalid input!") ' Line B Else 'code to calculate payment Return 877.57D ' Line C: return a calculated payment End If End Function Public Shared Function CheckBalance(ByVal account As ULong) _ As Decimal Return 877.57D ' Line D: return calculated balance End Function You write the following code for the unit test.
<TestMethod(> _ Public Sub PaymentTest() Dim payment As Decimal = _ Loan.Payment(100000, 360, 10) ' Line E Assert.AreEqual(_payment, 877.57D) ' Line F End Sub
You enable coverage testing for this unit test. You need to identify the coverage of your test. Which lines are covered by the test?

- A. Lines commented A, B, and C
- B. Lines commented A and C
- C. Lines commented A, B, C, D, E, and F
- D. Lines commented A, B, C, E, and F

Answer: B

Question: 5

You create Web-based client applications. You are reviewing a Web application page that populates a list of all employees of your company. You analyze code and find that the Web application page does not prevent exceptions from traveling to the browser. You need to ensure that the Web application page intercepts exceptions and presents an error message to the browser. What change should you suggest?

A. Add the following code segment to the Web.config file.

```
<system.web> <compilation  
debug="true"/>  
</system.web>
```

B. Add the following code segment to the page.

```
Protected Sub Page_Error(ByVal sender As Object, _  
ByVal e As System.EventArgs) Handles Me.Error  
Response.Redirect("error.aspx") End Sub
```

C. Add the following code segment to the Web.config file.

```
<system.web> <customErrors mode="Off"/>  
</system.web>
```

D. Change the Load event handler to the following code segment.

```
Protected Sub Page_Load(ByVal sender As Object, _ ByVal e As  
System.EventArgs) Handles Me.Load Try LoadEmployees()  
Catch
```

```
Response.Redirect("error.aspx")  
End Try End Sub
```

Answer: B

Question: 6

You create Web-based client applications. You are creating a sales management application. The application will be used to produce sales orders. Sales data, including orders and product information, is stored in a central Microsoft SQL Server 2005 database. The application uses Microsoft Windows Integrated security to access data. You test the application component that is used to retrieve sales order information from the database. The tests are successful. You check the code back into the source control so that the other testers can utilize the code. The testers notify you that the application fails to connect to the database in the test environment. You test the application again and the tests are successful. You need to recreate the bug environment to investigate and resolve the bug. Which three aspects of the testing environment should you take into account? (Each correct answer presents part of the solution. Choose three.)

- A. Web server processor speed
- B. Database security settings
- C. Network bandwidth
- D. Web server available memory
- E. Network credentials used for testing
- F. Impersonation settings

Answer: B, E, F

Question: 7

You create Web-based applications. You are creating an application that manages travel arrangements. Users can book business trips through the application and submit their expense reports. The current design specifies that 10 components are consumed by the application. You need to identify the components that require integration testing. Which three components should you choose? (Each correct answer presents part of the solution. Choose three.)

- A. Public Web service to retrieve weather information
- B. Third-party Web service to book flights
- C. Third-party Web service to book car rentals
- D. Locally hosted COM+ component to book hotels
- E. Locally hosted data access component to access a central database
- F. The .NET Framework Web server controls

Answer: A, B, C

Question: 8

You create Web-based client applications. You are designing a database that must meet the following requirements: Store data about people in the People table and data about the companies they work for in the Companies table. Track an unlimited number of companies for a person. Track an unlimited number of persons who worked at each company. You decide to create a one-to-many link from the People table to the Companies table. You need to evaluate whether the database is designed effectively and make a recommendation, if required. What should you recommend?

- A. The database is not correctly designed according to the requirements. You must create a many-to-many link between the People table and the Companies table by using an intersection table.
- B. The database is not correctly designed according to the requirements. You must create a many-to-many link directly between the People table and the Companies table.
- C. The database is not correctly designed according to the requirements. You must create a one-to-many link from the People table to the Companies table. Create another one-to-many link from the Companies table to the People table. Add columns to the People table and the Companies table to accommodate multiple child rows.
- D. The database is correctly designed according to the requirements. No changes are required.

Answer: A

Question: 9

You create Web-based client applications. All Web-based applications are created by using ASP.NET. Larger applications are hosted on Web server farms. The larger applications appear to intermittently lose session state information for users. You need to correct the problem. What should you do?

- A. Add additional servers to the Web farm to accommodate load. Configure the entire Web farm to reside in the same domain. Configure IIS on each server to have domain-level administrative permissions.
- B. Modify the Web.config file and set the mode attribute of the sessionState element to InProc. Restart IIS on each associated Web server.
- C. Modify the Web.config file and set the mode attribute of the sessionState element to StateServer. Start the state service on each associated Web server.
- D. Modify the Web.config file and set the mode attribute of the sessionState element to None. Configure IIS on each Web server to make state information available to all servers in the Web farm.

Answer: C

Question: 10

You create Web-based client applications. You are evaluating the design of an e-commerce Web site. The Web site processes credit card information. The Web site has a shopping cart and expects a high volume of traffic, especially during peak shopping times. The design specifications for the application must meet the following criteria: The application will be hosted on a Web farm. The application will use SSL during the checkout process. Shopping cart information will be stored in InProc session variables. You need to evaluate the design of the application and recommend whether it is technically feasible and complete. What should you conclude?

- A. The design is technically feasible, but it is not complete. The application must be configured to use cookieless sessions. Each server on the farm must use a unique certificate.
- B. The design is technically feasible and complete.
- C. The design is technically feasible, but it is not complete. The servers must have their affinity set to a single host (sticky sessions).
- D. The design is not technically feasible. The application cannot be hosted on a Web farm.

Answer: C

Question: 11

You create Web-based applications. You are creating an Internet banking application. The application will be used by bank account holders. You are creating a method to withdraw money from an account. The method must change the account balance according to one of the following rules: If the amount that is being withdrawn is less than or equal to the account balance, then subtract the amount from the balance. If the amount that is being withdrawn is greater than the account balance by up to 500 dollars, then subtract the amount and a 35-dollar fee from the balance. If the amount that is being withdrawn is greater than the account balance by more than 500 dollars, then generate an error. You are translating the specification given here into pseudo code. You start by writing the following code. Method Public Sub Withdraw Input parameters Decimal amount Class field Decimal balance Pseudo code //your pseudo code You need to insert the correct pseudo code. Which code segment should you insert?

- A. If amount < balance then balance - = amount If amount < balance + 500 then balance = balance - (amount + 35) If amount > balance + 500 then throw exception
- B. If amount <= balance then balance - = amount If amount <= balance + 500 then balance = balance - (amount + 35) If amount > balance + 500 then throw exception
- C. If amount < balance then balance - = amount Else If amount < balance + 500 then balance = balance - (amount + 35) Else throw exception
- D. If amount <= balance then balance - = amount Else If amount <= balance + 500 then balance = balance - (amount + 35)

Else throw exception

Answer: D

Question: 12

You create Web-based client applications. You are designing an extranet site for a company of trading partners. You decide to use the following technologies: Windows Authentication XML to transfer data between the company and the traders Before implementation, these technologies must be validated. You propose the following approach to perform the validation: Coordinate a test set of Active Directory accounts for one trading partner. Provide the trading partner access to a test site that has logon facility. Distribute the XML schema that permits the partner to access data. You need to evaluate whether the approach validates the proposed technology successfully. What should you conclude?

- A. The approach validates the use of the proposed technology for the application.
- B. The approach does not validate the use of the proposed technology for the application. The company and the partner need to create test applications. The test applications need to read data in the proposed XML schema to establish the validation.
- C. The approach does not validate the use of the proposed technology for the application. The company and the partner need to coordinate their Active Directory tree into a shared Active Directory forest.
- D. The approach does not validate the use of the proposed technology for the application. You must either use an existing publicly documented XML schema or register the shared XML schema by using an authentication site.

Answer: B

Question: 13

You create Web-based client applications. Your client company has an existing ASP.NET Web based application. The Web-based application uses a combination of HTML and client-side scripting to deliver online training content. Your client company has asked you to enhance the application to deliver interactive multimedia content. The enhanced application must support dial up users. You need to recommend an appropriate multimedia delivery mechanism for the application. What should you recommend?

- A. Dynamic HTML
- B. Streaming video
- C. Vector graphics animation
- D. XML/XSLT

Answer: C

Question: 14

You create Web-based client applications. You are creating an ASP.NET intranet site. The site permits individual departments to post content without involving the Central Information Technology resources. The site also permits Central Information Technology to maintain control over the intranet as a whole. Each department wants complete control over the appearance and behavior of their departmental content. However, Information Technology directives require every page on the intranet to maintain a consistent appearance and behavior. You need to develop the Web page on the intranet site so that it meets the requirements. What should you do?

- A. Create a single ASP.NET master page and individual department master pages. The pages must refer to the master page. Permit each department to modify its master page as desired as long as it references the company master page.
- B. Create a set of common .aspx files that contain the common style sheets and the header, navigation bar, and footer content that are to be referenced from departmental home pages by using ASP.NET #include directives.
- C. Create a base class that inherits from System.Web.UI.Page and design this page to control the common user interface elements.
- D. Create the home pages for all departments as ASP.NET server controls. Reference each control from the main project and load the appropriate server control when a departments home page is loaded.

Answer: A

Question: 15

You create Web-based client applications. You are creating a user-assistance mechanism for a Web form. The Web form serves as a multilevel wizard for clients to set up a new inventory for items. The user-assistance mechanism must meet the following requirements: Enable entry-level users to understand every step of the multilevel wizard process. Ensure that users complete the multilevel wizard on their first try. You need to select the appropriate user-assistance mechanism to meet the outlined requirements. What should you do?

- A. Place a Help link and a hidden label next to each field on each step of the wizard. The label must contain a brief description of the purpose of the field. Click the Help link to make the label visible.
- B. Place a Help link at the bottom of each step of the wizard, which opens a Web-based Help document for the entire wizard.
- C. Place a description of each step of the wizard on the first page of the wizard, before the user has entered any data.
- D. Place text containing user assistance for each step of the wizard at the top of that step.

Answer: D

Question: 16

You create Web-based client applications. You are creating a content management system (CMS). You intend to sell CMS to your customers. It is important that customers customize the appearance and behavior of the CMS installation because the system will be used for external Web sites. However, your customers are not programmers. The customers will not be able to modify complicated source code to customize the appearance and behavior of their Web sites. You need to create the system in such a way that customers can modify the appearance and behavior of their Web sites by editing the minimum number of files, ideally one or two. Which strategy should you use?

- A. By using ASP.NET Server Controls and class inheritance, create a template system that permits controls to inherit the appearance and behavior of their inherited class. Permit users to modify the root classes of the hierarchy to rearrange completely the appearance and behavior of their Web sites.
- B. Create a set of ASP.NET master pages and associate every page in your system by using a specific master page. Permit users to modify these master pages to rearrange completely the appearance and behavior of their Web sites.
- C. Configure your system to output completely compliant XHTML and use cascading style sheets (CSS) to create the visual layout of the pages. Permit users to modify the CSS files to rearrange completely the appearance and behavior of their Web sites.

D. Create the root pages by using ASP.NET #include directives to pull in the relevant sub-pages. Permit users to modify these root pages as desired to rearrange completely the appearance and behavior of their Web sites.

Answer: B

Question: 17

You create Web-based client applications. You are creating a Web control that includes data entry fields. The Web control also includes data validation code. The data validation code verifies whether the user has entered a valid date and a valid postal code in a text box. You are writing the code within the Web control to handle the invalid data. The Web control must work on as many browsers as possible. You need to design an appropriate feedback technique. What should you do?

- A. Throw an exception, and include details about the invalid data in the Message property.
- B. Throw an exception, and include details about the invalid data in the InnerException property.
- C. Use a pop-up error message to inform the user that the data is not valid.
- D. Display text to indicate why the data is not valid.

Answer: D

Question: 18

You create Web-based client applications. You create an application that is used as a portal. The portal uses a set of custom controls that expose different functionalities. The set of custom controls includes one control each for the following three tasks: Track sales Track inventory Permit access to the corporate e-mail of the company The portal must permit users to select the controls that they need to display on the basis of a predefined list. The design team proposes the following steps to meet the requirement: Create the custom controls as Web parts. Create a Web part zone page that has two Web part controls and a catalog part control. Add the sales Web part control to the Web part zone. You need to evaluate whether the solution meets the requirements. What should you conclude?

- A. The requirements are met. There is no need to change the application design.
- B. The requirements are not met. An editor part zone is necessary.
- C. The requirements are not met. The Web part controls must be added to the catalog part.
- D. The requirements are not met. The Web part controls must be added to the Web part page.

Answer: C

Question: 19

You create Web-based client applications. You create an application that will be used by customers to browse the product catalog of an Internet-based store and buy products. The application must meet the following requirements: Permit registered customers of the store to change display settings and personal information. Store the updated information and associate the information with the logged-on customer. You need to choose appropriate technologies to meet these requirements. Which two technologies should you choose? (Each correct answer presents part of the solution. Choose two.)

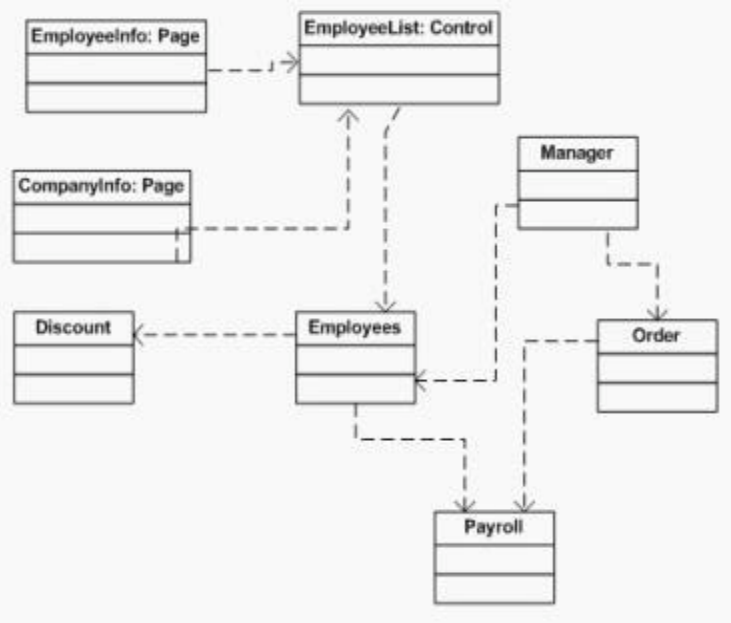
- A. SSL
- B. Editor parts

- C. Catalog parts
- D. User profiles
- E. Themes

Answer: D, E

Question: 20

You create Web-based client applications. You are designing an Employee class for an application. Your company Web site will use the application. You need to analyze the architecture diagram. You also need to decide which components will use the Employee class. The architecture diagram is shown in the following exhibit. (Click the Exhibit button.) Which two components should you choose? (Each correct answer presents part of the solution. Choose



- A. the EmployeeList control
- B. the EmployeeInfo page
- C. the Manager class
- D. the Order class
- E. the CompanyInfo page

Answer: A, C

Question: 21

You develop Web-based client applications. You are developing a Web page that will retrieve large amounts of data from a remote database. You need to ensure maximum scalability. What should you do before calling the code to retrieve the data?

- A. Set the Async attribute of the Page directive = true and call the ThreadPool.QueueUserWorkItem method in the Load event of the page.
- B. Set the Async attribute of the Page directive = true and call the AddOnPreRenderCompleteAsync method in the Load event of the page.
- C. Call the ThreadPool.GetAvailableThreads method in the PreLoad event of the page.
- D. Call the ThreadPool.QueueUserWorkItem method in the PreLoad event of the page.

Answer: B

Question: 22

You create Web-based client applications. You create a component that displays the category of a product and the product data on a Web page. The data is stored on the Web server in an XML file. The Web page must meet the following requirements: Display each category of products. List the name, description, and price of each product in a category. Prohibit the user from modifying the data. Load as quickly as possible. Use the minimum amount of code. Retrieve the data to display from the XML file. You need to identify the specific classes of a component that can be used to meet your Web page requirements. Which classes should you choose?

- A. a DataBinder class and a DataSet class
- B. an XPathBinder class and an XmlDataSource class
- C. a DataBinder class and an XmlDataSource class
- D. an XPathBinder class and a DataSet class

Answer: B

Question: 23

You create Web-based client applications. You create an e-commerce application. Users are permitted to customize the application. All user settings and product information of the application are stored in a database. The class diagram for the application is as shown in the Exhibit. (Click the Exhibit button.) You need to identify the correct logical layer in which each class resides based on the class diagram. Which set of associations should you identify?



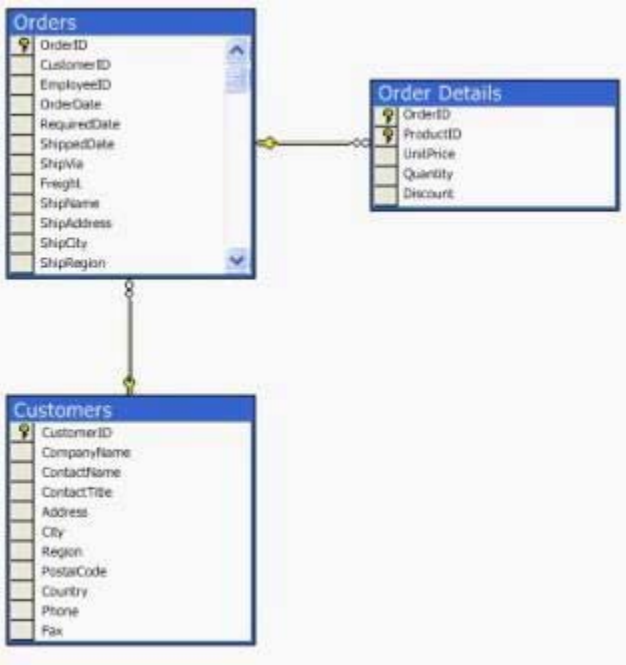
- A. The CheckOut class is in the Business Layer. The Product class is in the Data Layer. The Profile class is in the Data Layer.
- B. The CheckOut class is in the Data Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.
- C. The CheckOut class is in the Business Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.
- D. The CheckOut class is in the Presentation Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.

Answer: C

Question: 24

You create Web-based client applications. You are creating a class library. The class library will be used to read and write data in the following three tables that are located in the Northwind database:

Customers Orders OrderDetails The structure of the three tables is shown in the following diagram. (Click the Exhibit button.) You need to ensure that the interfaces of the three classes accurately represent the connections between the tables in the database. Which design should you choose?



- A. The Customer class contains a method called CreateOrder. The Order class contains a method called AddDetail.
- B. The Customer class contains a collection of orders. The Order class contains a collection of OrderDetails tables.
- C. The Customer class contains a property called Orders that returns an array of OrderIDs. The Order class contains a property called Details that returns an array of Details.
- D. Create three classes: Customer, Order, and OrderDetail.

Answer: B

Question: 25

You create Web-based client applications. You are creating a component that sends the data that is generated by regional offices to a remote server that is located at the central office. Each regional office generates thousands of orders every week. This data is stored on several tables in an instance of Microsoft SQL Server that is located at the regional office. The manager at the regional office reviews all orders and modifies them, if necessary, before inserting them into the database at the central office. You need to ensure that the component meets the following requirements: The manager has the option of reviewing and modifying the orders offline. The data from a regional office is copied to the server that is located at the central office in as short a time as possible. Which option should you use?

- A. a DataSet object and a SqlBulkCopy object
- B. an SqlCommand object that uses a T-SQL statement
- C. a DataSet object that uses a T-SQL statement

D. a DataTableReader object and a SqlBulkCopy object

Answer: A

Question: 26

You create Web-based client applications. You are creating a data access component. Several Web user controls will use the component to populate bound controls from a data source. The data source has end-user inputs. You need to ensure that the data source communicates all relevant information to the Web user controls that call your component. How should you accomplish this goal?

- A. When the data access component makes a successful call to the data source, raise and throw an exception to the Web user controls to indicate success.
- B. When the data access component makes an unsuccessful call to the data source, raise and throw an exception to the Web user controls to indicate failure.
- C. When the data access component makes a successful call to the data source, raise and throw an exception to the Web page to indicate success.
- D. When the data access component makes an unsuccessful call to the data source, handle it internally by using the data access component to indicate failure.

Answer: B

Question: 27

You create Web-based client applications. You create a component named Orders for a company named Northwind Traders. This component is used to retrieve and update data in the Orders table of the companys database. The schema of the Orders table is as shown in the following Exhibit. (Click the Exhibit button.) The Orders component permits the client application to perform the following tasks: Retrieve all orders for a Customer. Retrieve all orders for an Employee. Retrieve all orders that are shipped. An instance of the Order class represents a single order that is identified by the OrderID parameter. An instance of the Order class permits the client application to perform the following tasks: Ascertain whether an order is shipped. Modify the RequiredDate field of the Order table for an existing order. Delete an order. You need to create the design for the component. What should you do? To answer, drag the appropriate members to the correct locations in the member type column.

What should you include in the Product class?

- A. a MustOverride ProductID property and an overridable GetProductDetails procedure
- B. an overridable ProductID property and an overridable GetProductDetails procedure
- C. an overridable ProductID property and a MustOverride GetProductDetails procedure
- D. a MustOverride ProductID property and a MustOverride GetProductDetails procedure

Answer: C

Question: 29

You create Web-based client applications. You create a class library that is named Fabrikam.dll. Ten applications will use Fabrikam.dll. Fabrikam.dll contains two classes that are named Order and OrderDetail. The class library must meet the following requirements: Both the classes in Fabrikam.dll are available to client applications of Fabrikam.dll. Each instance of the OrderDetail class is associated with an instance of the Order class. Code segments in client applications do not instantiate the OrderDetail class. The OrderDetail class contains no static members. You need to design the interface for the OrderDetail class. Which code segment should you choose?

A. Public NotInheritable Class OrderDetail
Friend Sub New() End Sub

End Class

B. Friend NotInheritable Class OrderDetail
Friend Sub New() End Sub End Class

C. Public NotInheritable Class OrderDetail
Public Sub New() End Sub End Class

D. Public NotInheritable Class OrderDetail
Private Sub New()
End Sub End Class

Answer: A

Question: 30

You create Web-based client applications. You are evaluating the configuration architecture of an application in a suite of tools that is managed from a common management console. You must get user-specific information, which is gathered during the user sessions, for the marketing department so that they can analyze trends in usage. Eventually, the marketing department might decide to store the data on their Microsoft SQL Server database in the next version of their customer management tool suite. The configuration architecture has the following features: The data is stored in files on a shared file server. Permissions for the server permit the Web server to write and the marketing department to read the data. The data is formatted in XML. You need to evaluate whether the configuration architecture meets the requirements. What should you recommend?

- A. The configuration architecture meets both the present and future requirements.
- B. The configuration architecture meets the present requirements. However, it will not facilitate future SQL Server migration.
- C. The design does not meet the requirements. You need to store the data in an application-level variable.
- D. The design does not meet the requirements. Session-level data should be stored on either a Microsoft SQL Server or a Session Server to facilitate scalability.

Answer: A

Question: 31

You create Web-based client applications. You are creating an intranet application that reviews customer data. The internal Personally Identifiable Information (PII) policy specifies the following requirements for access to customer data: Only employees in the customer management group can access the customer data. Access to customer data is limited to computers that are inside company facilities. The legal team advises that you log information that verifies that you have met the PII requirements. The log might be useful if there is a legal challenge over customer privacy. You must create a design that uses minimum amount of storage. You must also ensure that the design meets all the requirements. You decide to store the Microsoft Windows user name for any user who uses the program to access the customer data. You also decide to store the date and time of the access. You need to decide if the design will meet all the requirements. What should you conclude?

- A. The design meets the requirements. The design stores sufficient information to provide the legal department with documentation that their rules have been followed without wasting space on extra data.
- B. The design does not meet the requirements. You need to store only user information about failed logon attempts. This design wastes space storing extra data.
- C. The design does not meet the requirements. You also need to store the IP address of all logon attempts to demonstrate that the access was made from inside the company.
- D. The design does not meet the requirements. You also need to store the IP address of all failed logon attempts to demonstrate that the access was made from inside the company.

Answer: C

Question: 32

You create Web-based client applications. You create a public function for your application that must connect to a data source. The public function must also perform a series of updates to the data. Some of the operations will result in exceptions if there are errors. Your exception handling mechanism must meet the following requirements: Callers of the function must be able to ascertain whether the function succeeded or failed. If the function failed, callers of the function must be able to find where and why it failed. If there is any error, the function must immediately stop processing. You need to identify the best exception handling mechanism. What should you do?

- A. Return an application-specific error code indicating overall success or failure of the function, with sub-codes indicating the stage where failure occurred.
- B. Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Do not return a status code or throw an exception if the function succeeds.
- C. Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Return a status code detailing whether the function succeeds or does not succeed.

D. Return an application-specific exception that includes any caught exceptions or return null if the entire function succeeds.

Answer: B

Question: 33

You create Web-based client applications. You create an application that has 20 pages. The pages include tables of data. The tables of data must meet the following requirements: Each table of data must display the data from one database table. When a user clicks on a column heading, the column must sort the data in the table. A style sheet must be used to format the tables. You need to meet the requirements for the tables in the most efficient way possible. What should you do?

- A. Use a DataList component that contains all the necessary functionalities.
- B. Use the GridView component that is included with Microsoft Visual Studio 2005.
- C. Write your own reusable software component.
- D. Use an XML dataset.

Answer: B

Question: 34

You create Web-based client applications. You are creating a Web component that calls an existing function. The function might throw an application-specific exception of type `InvalidChecksumException`. The type `InvalidChecksumException` inherits from the `System.ApplicationException` class. The component is coded to recover from an `InvalidChecksumException` exception, but not to recover from other types of exceptions. The component does not have any additional information that could be usefully added to other types of errors or exceptions. You need to design the component to correctly handle exceptions. You also need to ensure that the exception handling strategy does not affect the performance of the component. What should you do?

- A. Use a catch statement that verifies an `ApplicationException` instance and find the exception type. If it is an `InvalidChecksumException` instance, handle it internally. Otherwise, pass the exception up the call stack.
- B. Use only a catch statement that verifies an `InvalidChecksumException` instance that will be handled internally.
- C. Use a catch statement without parameter. Verify the `Message` property to see if the exception is an `InvalidChecksumException` instance and handle it internally. Otherwise, pass the exception up the call stack.
- D. Use a catch statement that verifies an `InvalidChecksumException` instance followed by another catch statement that verifies general exceptions. In the first catch block, handle the exception internally. In the second catch block, log the error and pass the exception up the call stack as an inner exception.

Answer: B

Question: 35

You create Web-based client applications. You create an ASP.NET Web application. Five hundred users will access the Web-based application simultaneously. The application uses session variables to persist user data. You monitor the application by using System Monitor. You need to identify a counter that will warn you of the problems that you are most likely to face while monitoring. Which counter should you use?

- A. ASP.NET ApplicationsAnonymous requests/sec
- B. ASP.NET ApplicationsCache total entries
- C. MemoryAvailable megabytes
- D. Physical DiscDisc reads/sec

Answer: C

Question: 36

You create Web-based client applications. You deploy an application for a company. The application enables customers to access mobile phone invoices. Users report that the application fails to respond and time-outs occur. You test the application and find that the reports are valid. You need to identify the cause of the problem. Which analysis strategy should you use?

- A. Start the performance Microsoft Management Console snap-in. Change to the Report view. Add all ASP.NET performance object counters. Look for high counts of requests queued and requests timed out.
- B. Start the event viewer Microsoft Management Console snap-in. Switch to the Application view. Look for high counts of number of requests timed that are shown at configured intervals.
- C. Start the performance Microsoft Management Console snap-in. Change to the Report view. Add all the network interface performance object counters. Look for high counts of requests queued and requests timed out.
- D. Open the Trace.axd file. Scroll to the performance count category. Look for high counts of requests queued and requests timed out.
- E. Start the event viewer Microsoft Management Console snap-in. Switch to the System view. Apply a filter to show only ASP.NET related events. Look for high counts of number of requests timed out that are shown at configured intervals.

Answer: A

Question: 37

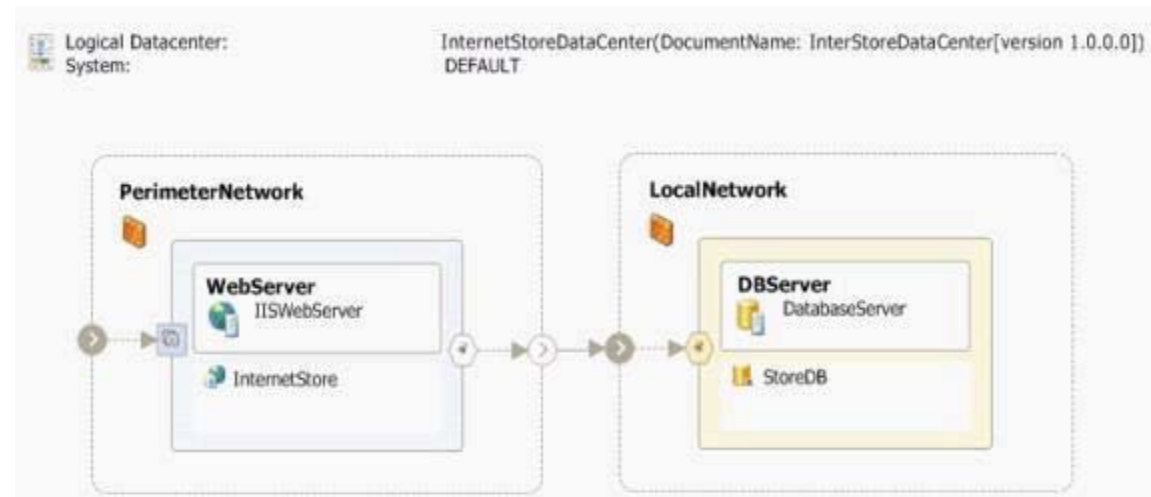
You create Web-based client applications. You deploy an application on your company extranet. The application uses an ASP.NET 2.0 Membership system. The support team requires that changes in passwords be communicated to their Microsoft Windows Management Instrumentation (WMI) integrated system. You propose the use of health monitoring APIs to perform the following actions: Respond to password changes inside the application. Call a custom event handler when a password change occurs. Report the changes to the support teams WMI system by using the custom event handler. You need to examine whether the proposed solution meets the requirements. What should you conclude?

- A. The proposed solution meets the requirements.
- B. The proposed solution does not meet the requirements. The health monitoring API does not support WMI directly.
- C. The proposed solution does not meet the requirements. The output of the WMI export is done on a batch basis that relies on the Heartbeat method. The Heartbeat method will not permit event-driven interaction.
- D. The proposed solution does not meet the requirements. The health monitoring API cannot ascertain successful password changes.

Answer: A

Question: 38

You create Web-based client applications. You deploy an application that manages an Internet based store. Customers are able to browse a list of products, create an order to buy the products, and view the status of their orders. The operational application requirements state that the application must be available for browsing when the database server is not available. The production environment uses a Network Load Balancing cluster to host the application. The application uses an XML file stored on the database server to read data that is used for product browsing. The deployment diagram for the application is as shown in the following exhibit. (Click the Exhibit button.) You need to evaluate the production environment and recommend changes, if



- A. The current production environment meets the requirements.
- B. The current production environment does not meet the requirements. The XML file must be placed on the Web server.
- C. The current production environment does not meet the requirements. The data from the XML file must be stored in the database.
- D. The current production environment does not meet the requirements. The database server must be added to the Network Load Balancing cluster of the Web tier.

Answer: B

Question: 39

You create Web-based client applications. You deploy an application on the company extranet. The sales team requires notification when an order total exceeds the companys approval levels. The application requires you to send an e-mail to the sales manager to receive approval for any order over \$100,000. You must meet the following constraints to achieve this requirement: Modifications can be done only to the Web.config file Limited programmer resources System can be configured as needed at multiple sites The design team plans to use the SimpleMailWebEventProvider class of the health monitoring APIs to send the e-mail. You need to evaluate whether the design meets the requirement. What should you recommend?

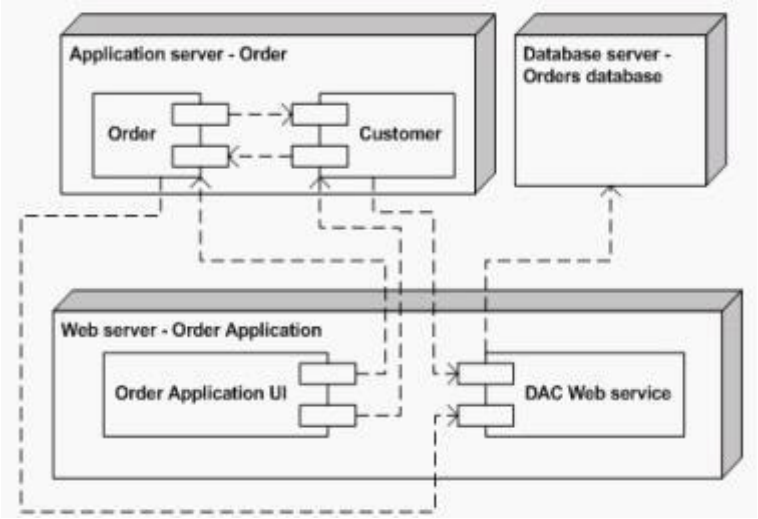
- A. The design meets the requirement.
- B. The design does not meet the requirement. Though there is a built-in event handler to process all errors, you need to write a custom provider to send e-mail to the sales manager.

- C. The design does not meet the requirement. You need to write a custom event handler to respond to an application specific trigger. You can use a built-in provider to send e-mail to the sales manager.
- D. The design does not meet the requirement. You need to write a custom event handler to respond to an application specific trigger. You need a custom provider to write e-mail to the sales manager.

Answer: C

Question: 40

You create Web-based applications. You are creating an application for purchase order management. The application is composed of a Web client, business logic components, a Data Access Component (DAC) Web service, and a central database. The application design meets the following specifications: The Web-based client application is used for end-user interaction. The Web-based client application uses two business logic components named Order and Customer. Each customer can have multiple orders. Each order belongs to a single customer. The business logic components use DAC Web service. The business logic components make data available to the Web-based client application. You receive a deployment diagram as shown in the following exhibit. (Click the Exhibit button.) You need to evaluate the diagram to ensure that it complies with the specifications. What should



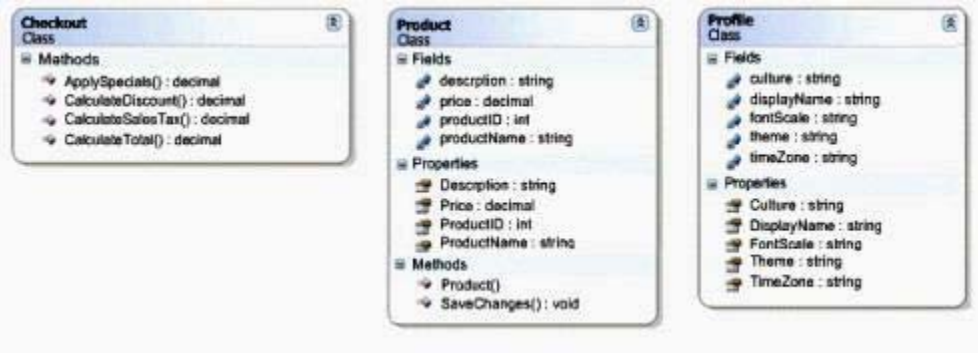
- A. The diagram complies with the specifications.
- B. The diagram is incomplete. It needs a dependency from the Web client component to the Microsoft Data Access component.
- C. The diagram is incomplete. It needs a dependency from the Data Access component to the Order component.
- D. The diagram is incomplete. It needs a dependency from the Order component to the Web-based client application.

Answer: A

Question: 41

You create Web-based client applications. You create an e-commerce application. Users are permitted to customize the application. All user settings and product information of the application

are stored in a database. The class diagram for the application is as shown in the Exhibit. (Click the Exhibit button.) You need to identify the correct logical layer in which each class resides based on the class diagram. Which set of associations should you identify?



- A. The CheckOut class is in the Business Layer. The Product class is in the Data Layer. The Profile class is in the Data Layer.
- B. The CheckOut class is in the Data Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.
- C. The CheckOut class is in the Business Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.
- D. The CheckOut class is in the Presentation Layer. The Product class is in the Data Layer. The Profile class is in the Presentation Layer.

Answer: C

Question: 42

You create Web-based client applications. You are creating a page for a Web-based application. You must ensure that the page meets the following requirements: Uses forms authentication to validate users. Deploys on a single Web server. Is highly secure. Gives higher priority to security than speed. You need to recommend a configuration setting for your page. Which configuration setting should you choose?

- A. <machineKey validationKey="AutoGenerate" decryptionKey="AutoGenerate" decryption="Auto" validation="SHA1" />
- B. <machineKey validationKey="AutoGenerate " decryptionKey="AutoGenerate " decryption="Auto" validation="MD5" />
- C. <machineKey validationKey="AutoGenerate,IsolateApps" decryptionKey="AutoGenerate,IsolateApps" decryption="Auto" validation="MD5" />
- D. <machineKey validationKey="AutoGenerate,IsolateApps" decryptionKey="AutoGenerate,IsolateApps"

```
decryption="Auto"  
validation="SHA1" />
```

Answer: D

Question: 43

You create Web-based client applications. You are creating a class named Product. The Product class will be used by a Web-based application to retrieve and modify product information. When you create an instance of the Product class, you retrieve the current information from the Products table. The Product class contains a static member named CreateNewProduct. The CreateNewProduct method is used to add a new product to the database and return the primary key. The Products table contains the following fields: ProductID (primary key) ProductName Description CategoryID CurrentPrice You need to create the constructor for the Product class. Which code segment should you use?

A. Public Sub New(ByVal ProductID As Integer, ByVal ProductName As String, ByVal Description As String, ByVal CategoryID As Integer, ByVal CurrentPrice As Decimal)
'Insert code here End Sub

B. Public Sub New(ByVal ProductID As Integer, ByVal ProductName As String)
'Insert code here End Sub

C. Public Sub New()
'Insert code here
End Sub

D. Public Sub New(ByVal ProductID As Integer)
'Insert code here End Sub

Answer: D

Question: 44

You create Web-based client applications. You have created a Web-based application that retrieves data from a database. Hundreds of users access this Web-based application. A performance baseline has been created and integrated into a maintenance plan for the application. You find that the Web-based application consumes more resources than expected. You use instrumentation to profile the Web-based application and discover that resources are not being released correctly. You modify the code and profile the Web-based application again. You find the performance metrics appear to be within the requirements. You need to identify your next action. What should you do?

- A. Stop and discontinue the use of instrumentation. Review the code on a monthly basis.
- B. Continue to profile the application on an ongoing basis.
- C. Disable instrumentation at this time. Profile the application on a daily basis.
- D. Disable instrumentation at this time. Profile the application in accordance with the maintenance plan.

Answer: D

Question: 45

You develop Web-based client applications. You are developing a custom Web control named ShoppingCart. The ShoppingCart control tracks the products in a users shopping cart. The ShoppingCart control contains a read-only property named SubTotal. The pages that use the ShoppingCart control compare the SubTotal property with the users credit limit before attempting to add any new items to the users shopping cart. The ShoppingCart control also contains display properties, such as Font, Color, and DisplayDirections. These properties are not critical to the functionality of the control. You need to establish how to implement the SubTotal property and the display properties in the ShoppingCart control. What should you do?

- A. Use the ControlState state to persist the SubTotal property and the ViewState state to persist the display properties.
- B. Use the ViewState state to persist the SubTotal property and the ControlState state to persist the display properties.
- C. Retrieve the value for the SubTotal property from the database, and persist the display properties by using the ControlState state.
- D. Use the ViewState state to persist the SubTotal property, and persist the display properties by using the ViewState.

Answer: A

Question: 46

You create Web-based client applications. You are creating a business logic component. The component has to pass any exception exactly as received to the Web Form procedure that calls the component. The component also has to attach the custom information to the caught exception before the custom information is passed to the Web Form procedure. You need to ensure that the component permits the consumer to deal with the exception by using the least coding effort. What should you do?

- A. Catch the original exception and throw it to the Web Form procedure. Include the custom information as the Data property.
- B. Catch the original exception and throw a new exception to the Web Form procedure. Include the custom information as the Data property and the original exception as the InnerException property.
- C. Catch the original exception and throw a new exception to the Web Form procedure. Include the custom information as the Message property.
- D. Catch the original exception and throw a new exception to the Web Form procedure. Include the custom information as the Message property and the original exception as the InnerException property.

Answer: A

Question: 47

You create components for Web-based client applications. You are creating a BankAccount class. The BankAccount class contains an AccountNumber property and a CreateAccount method. The CreateAccount method is used to create a new account. The method generates a unique random value for the actNumber field. You need to ensure that the BankAccount class is extendable, and that it serves as the base class for other derived classes. You also need to ensure that each derived class can have its own guidelines to generate account numbers in the CreateAccount method. Which code segment should you use?

- A.

```
Public Class BankAccount
    Protected actNumber
    As Long
    Public ReadOnly Property AccountNumber()
    As Long
```

```

Get
Return actNumber
End Get
End Property
Public Overridable Function CreateAccount() As BankAccount
...
End Function
End Class
B. Public Class BankAccount Private actNumber As
Long Public ReadOnly Property AccountNumber() As
Long Get Return actNumber

```

```

End Get
End Property
Public Overridable Function CreateAccount() As BankAccount
... End
Function End
Class
C. Public Class BankAccount Protected actNumber
As Long Public ReadOnly Property AccountNumber()
As Long Get Return actNumber End Get End
Property Public Function CreateAccount() As
BankAccount ...

```

```

End Function
End Class
D. Public Class BankAccount Private actNumber As
Long Public ReadOnly Property AccountNumber() As
Long Get Return actNumber End Get End Property
Public Function CreateAccount() As BankAccount

```

```

... End
Function End
Class

```

Answer: A

Question: 48

You create Web-based client applications. You are designing a procedure to retrieve product data from a database. The product data will be displayed on several pages of your Web site. The data will be filtered and sorted by different parameters and will be displayed in grids with paging. Users will not be able to modify the data that is displayed on the Web site. The product data is stored in a database on an instance of Microsoft SQL Server that is located on a different server. The database is configured to support SQL cache invalidation. You need to ensure that the data is retrieved such that the pages of the Web site load as quickly as possible. What should you do?

- A. Use a SqlDataReader object.
- B. Use a DataTableReader object.
- C. Use a DataTable object.
- D. Use a SqlDataAdapter object.

Answer: C

Question: 49

You create Web-based client applications. You are creating a component named Product. The component will represent data in the products table of a database. The ProductID field is the primary key of the products table. The Product ID is an integer value that is generated by the database. The products table contains two fields named ProductName and CurrentPrice, which do not accept null values. You need to design an interface for the Product class. You also need to ensure that upon instantiation the component will either retrieve an existing product from the database or add a new record to the products table. Which design feature should you choose?

- A. The constructor includes a Boolean parameter named CreateNew and an integer parameter named ProductID.
- B. The constructor is overloaded such that one version includes a ProductID parameter and another version contains no arguments.
- C. The constructor is overloaded such that one version includes a ProductID parameter and another version includes ProductID, ProductName, and CurrentPrice parameters.
- D. The constructor is overloaded such that one version includes a ProductID parameter and another version includes ProductName and CurrentPrice parameters.

Answer: D

Question: 50

You create Web-based applications. The application is installed in a Network Load Balancing cluster. You are analyzing a bug report. When a failure occurs in the application, the client sometimes receives a correctly formatted friendly error page as expected. At other times, the client receives an exception stack with the error message, which is not expected. You need to identify the configuration setting that causes the unexpected response. Which configuration setting should you identify?

- A. <compilation debug="true" />
- B. <customErrors mode="On" />
- C. <compilation debug="false" />
- D. <customErrors mode="Off" />

Answer: D

Question: 51

You create Web-based client applications. You are modifying the home page of an existing Internet application by adding a third-party component. You need to decide what type of testing is required. Which two testing techniques should you choose? (Each answer presents part of the solution. Choose two.)

- A. unit testing of the third-party component
- B. integration testing with the third-party component
- C. regression testing of the third-party component
- D. certification testing of the third-party component
- E. performance testing with the third-party component

Answer: B, E

Question: 52

You create Web-based client applications. You are reviewing a Web application page that populates the list of all employees for your company. The following code segment loads the list of

employees from a database. You analyze the code segment. You find that the database connection fails to close properly when the GetEmployees method throws an exception. You need to recommend a change in the code segment to ensure that every possible code path closes the database connection. Which code segment should you recommend?

```
Private Shared Function LoadEmployeesFromDatabase() _
    As List(Of CEmployee)
    Dim factory As DbProviderFactory = _
        DbProviderFactories.GetFactory("System.Data.SqlClient")
    Dim lstEmployees As List(Of CEmployee) = Nothing

    ' Extract the connection string from configuration data
    Dim connString As ConnectionStringSettings = _
        ConfigurationManager.ConnectionStrings("EmployeeStore")

    ' Create the connection and open it
    Dim conn As DbConnection = factory.CreateConnection()
    conn.ConnectionString = connString.ConnectionString
    conn.Open()

    ' Get the employees. The connection to the database is
    ' given as parameter
    lstEmployees = GetEmployees(conn)

    ' Close the connection to the employee data store
    conn.Close()

    Return lstEmployees
End Function
```

A. ' Create the connection and open it Using conn As DbConnection = factory.CreateConnection()
conn.ConnectionString = connString.ConnectionString
conn.Open() ' Get the employees. The connection to the database ' is given as parameter lstEmployees = GetEmployees(conn)

End Using
B. ' Create the connection and open it Dim conn As DbConnection = factory.CreateConnection()
conn.ConnectionString = connString.ConnectionString
conn.Open() ' Get the employees. The connection to the database is ' given as parameter lstEmployees = GetEmployees(conn) If lstEmployees Is Nothing Then
conn.Dispose() Else conn.Close() End If

```

C. Dim coll As HandleCollector = _ New
   HandleCollector("Connections", 0, 5) '
Create the connection and open it
   Dim conn As DbConnection = factory.CreateConnection()
   conn.ConnectionString = connString.ConnectionString
   conn.Open()
   coll.Add()
' Get the employees. The connection to the database is
' given as parameter   lstEmployees =
GetEmployees(conn)   ' Close the connection to the
employee data store   conn.Close()   coll.Remove()

```

```

D. Using factory As IDisposable = _
   TryCast(DbProviderFactories.GetFactory(
"System.Data.SqlClient"), IDisposable)   Dim conn As
DbConnection = factory.CreateConnection()
conn.ConnectionString = connString.ConnectionString
conn.Open()   ' Get the employees. The connection to the
database   ' is given as parameter   lstEmployees =
GetEmployees(conn)

```

End Using

Answer: A

Question: 53

You create Web-based client applications. You are creating an application for a Web site. The Web site uses the application to simulate mortgage loans. Your application calculates the monthly payment for loans. The monthly payment is based on the number of payments, rate, and the amount of loan. You need to create the unit testing strategy for the application. What should you do?

- A. Create a test that verifies the accuracy of the application based on a list of valid values.
- B. Create a test that verifies the integration points of the application.
- C. Create a test that verifies that the application consumes no more than 40 percent of CPU time.
- D. Create a test that verifies that the application consumes no more than 512 MB of RAM.

Answer: A

Question: 54

You create Web-based client applications. Your company has an existing ASP.NET application that is currently deployed on a single server. The application manages state by using session variables and ViewState. The number of users for the application has significantly increased. You need to configure the application to accommodate the significantly increased traffic and to recover transparently from hardware failure. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Implement network load balancing.
- B. Use matching machine keys in the Machine.config files.
- C. Use cookieless sessions.
- D. Implement sticky sessions.
- E. Configure Microsoft SQL Server as the location for state storage.
- F. Configure SSL.

Answer: A, B, E

Question: 55

You create Web-based client applications. You administer a large ASP.NET Web application that is hosted by using IIS. The application must meet the following requirements: Permit all users to log on by using a Web page that is integrated into the application. The security configuration must accommodate the largest number of browsers possible. You need to make recommendations for a security plan that meets the application requirements. What should you recommend?

- A. Configure IIS to use Basic authentication.
- B. Configure IIS to use Integrated Windows authentication.
- C. Set the mode attribute of the authorization element in the Web.config file for the application to Windows. A custom logon form should be created in the application and the classes in the System.Web.Security namespace must be used to manage the authentication process.
- D. Set the mode attribute of the authentication element in the Web.config file for the application to Forms. A custom logon form should be created in the application and the classes in the System.Web.Security namespace must be used to manage the authentication process.

Answer: D

Question: 56

You create Web-based client applications. You are evaluating an application. The application displays data that is stored in XML files. The data changes periodically. The development team implements a complex caching solution to improve the performance of the application. However, the caching solution is identified as causing the performance of the application to drop to an unacceptable level. The caching solution also results in significant data latency. The application requirements state that the data that is displayed in the application must be close to real time. You need to ensure that the application design meets the requirements. You also need to ensure that least amount of code is used. Which rationale should you choose?

- A. The application is not performing optimally. Discard the current caching solution in favor of ASP.NET page caching.
- B. The application is not performing optimally. Discard the current caching solution in favor of ASP.NET data caching. Configure a cache dependency to monitor the source file.
- C. The application is not performing optimally. Compile the current caching solution into its own assembly and add it to the global assembly cache.
- D. The application is performing optimally. A custom caching solution is the recommended approach.

Answer: B

Question: 57

You create Web-based client applications. You are creating an Internet banking application. Bank account holders will use this application. The application uses a set of Web services to retrieve account information. One of these Web services is used to retrieve a list of transactions. This Web service returns the list as an XML document. The application must meet the following requirements: Data from the XML document has to be retrieved, formatted, and displayed in the user interface. Any changes to the way the data is formatted and to the amount of data displayed should not require the code to be recompiled. The current design of the application specifies that the XML document will be accessed through an XmlDocument object, and XPath expressions will be used to extract portions of the document

to populate controls on a Web form. You need to evaluate the current design of the application and make recommendation for changes, if required. What should you recommend?

- A. The current design meets the requirements.
- B. The current design does not meet the requirements. Use an XSLT file to transform the XML document and display the result on a Web form by using an XML control.
- C. The current design does not meet the requirements. Use a cascading style sheet (CSS) file to format the output of the current Web form.
- D. The current design does not meet the requirements. Generate a Dataset object from the XML document and bind the dataset to a DataGrid control on a Web form.
- E. The current design does not meet the above requirements. Generate a DataTable object from the XML document and bind the DataTable object to a DataGrid control on a Web form.

Answer: B

Question: 58

You create Web-based client applications. You review an application that manages the medical information of patients. The information is confidential and needs to be stored by using the most secure method available. The application encrypts patient data and stores it in database tables. The application stores a document or image that is related to a patient in the following manner: The name of the item is stored in the database. The physical document or image is stored in the local file system. The application locates and retrieves the physical document or image based on the name that is returned from the database when the data for a patient is queried. You need to evaluate whether the current application design uses the most secure method available to store information and provide an appropriate recommendation. What should you recommend?

- A. The current method of storage is the most secure one available.
- B. The current method of storage is not the most secure one available. Documents and images must be stored in the database.
- C. The current method of storage is not the most secure one available. Patient data, documents, and images must be serialized and stored in XML.
- D. The current method of storage is not the most secure one available. Patient data, documents, and images must be stored on a removable drive for quick removal in case of a security breach.

Answer: B

Question: 59

You create Web-based client applications. You are designing a new Web site for your company. You need to evaluate the design concept for the main page, default.aspx. The default.aspx page contains static information, except for one data grid that displays information about the companys products. The data grid will retrieve the data from a component. The component will retrieve the data from a stored procedure. The page has the appropriate permissions to the Microsoft SQL Server database. The application design must achieve the following goals without altering the data component: The default.aspx page must load quickly. The default.aspx page must contain the latest data from the database. You decide to use a sqlCacheDependency attribute to ensure that the default.aspx page always displays the latest data in the grid. You need to ascertain whether the use of the sqlCacheDependency attribute meets the requirements of this application. Which rationale should you choose?

- A. The use of the sqlCacheDependency attribute is not feasible. The sqlCacheDependency attribute must be used in the component and not on the page.

- B. The use of the sqlCacheDependency attribute is not feasible. The sqlCacheDependency attribute cannot be used with a stored procedure.
- C. The use of the sqlCacheDependency attribute is feasible. The sqlCacheDependency attribute can be used by including a sqlDependency attribute in the @OutputCache directive of the page.
- D. The use of the sqlCacheDependency attribute is feasible. The sqlCacheDependency attribute can be linked to the data component that is used on the page.

Answer: C

Question: 60

You create Web-based client applications. You are creating an application that must access different databases depending on whether the application is in demonstration, production, or test mode. The mode is stored in an environment variable. The configuration file contains the following settings. <connectionStrings> <add name = "ProdDB" connectionString = "Data Source = server; Initial Catalog = ProdDatabase; Integrated_Security = true" providerName = "System.Data.SqlClient" /> <add name = "DemoDB" connectionString = "Data Source = server; Initial Catalog = DemoDatabase; Integrated_Security = true" providerName = "System.Data.SqlClient" /> <add name = "TestDB" connectionString = "Data Source = server; Initial Catalog = TestDatabase; Integrated_Security = true" providerName = "System.Data.SqlClient" /> </connectionStrings> You need to ensure that changing the mode will not require you to change the configuration file. Which code segment should you use?

A. Public Function GetConnectionString() As String
#If PROD Then Return
WebConfigurationManager. _
ConnectionStrings("ProdDB").ConnectionString
#Elseif DEMO Then Return
WebConfigurationManager. _
ConnectionStrings("DemoDB").ConnectionString
#Else Return WebConfigurationManager. _
ConnectionStrings("TestDB").ConnectionString
#End If End Function

B. Public Function GetConnectionStringB() As String Return
WebConfigurationManager.ConnectionStrings(_
Environment.GetEnvironmentVariable("WebAppModeDB")) _
.ConnectionString() End Function

C. Public Function GetConnectionString() As String Return
ConfigurationSettings.AppSettings(_
Environment.GetEnvironmentVariable("WebAppModeDB"))
End Function

D. Public Function GetConnectionString() As String
#If PROD Then Return
ConfigurationSettings.AppSettings("ProdDB") #Elseif
DEMO Then Return
ConfigurationSettings.AppSettings("DemoDB")

```
#Else
Return ConfigurationSettings.AppSettings("TestDB")
#End If
End Function
E. Public Function GetConnectionString() As String
Return WebConfigurationManager. _
ConnectionStrings("Database").ConnectionString()
End Function
```

Answer: B

Question: 61

You create Web-based client applications. You deploy an application for a company. The application enables customers to access mobile phone invoices. Users report that the application fails to respond and time-outs occur. You test the application and find that the reports are valid. You need to identify the cause of the problem. Which analysis strategy should you use?

- A. Start the performance Microsoft Management Console snap-in. Change to the Report view. Add all ASP.NET performance object counters. Look for high counts of requests queued and requests timed out.
- B. Start the event viewer Microsoft Management Console snap-in. Switch to the Application view. Look for high counts of number of requests timed that are shown at configured intervals.
- C. Start the performance Microsoft Management Console snap-in. Change to the Report view. Add all the network interface performance object counters. Look for high counts of requests queued and requests timed out.
- D. Open the Trace.axd file. Scroll to the performance count category. Look for high counts of requests queued and requests timed out.
- E. Start the event viewer Microsoft Management Console snap-in. Switch to the System view. Apply a filter to show only ASP.NET related events. Look for high counts of number of requests timed out that are shown at configured intervals.

Answer: A

Question: 62

You create Web-based client applications. You create a Web-based application for your company. Partner companies will also access the application. You evaluate the deployment plan as shown in the following exhibit. (Click the Exhibit button.) Company policy states that permission is required to open port 80 and port 443 on the company firewall. The ports are to be opened only to specified servers. This policy applies to the firewall that separates the red zone from the perimeter network. This policy also applies to the firewall that separates the perimeter network from the intranet. Port 80 is already open in the outer firewall. You need to modify the deployment plan to meet the company policy. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)



- A. Ask the firewall administrator to open port 80 in the firewall that separates the perimeter network from the intranet to the business servers.
- B. Ask the firewall administrator to open port 80 in the firewall that separates the perimeter network from the intranet to the business servers and the database server.
- C. Add a Web service layer to the business servers.
- D. Move the business servers into the perimeter network.
- E. Configure the database server to use port 80.
- F. Make the Web server farm a member of the Active Directory domain.

Answer: A, C

Question: 63

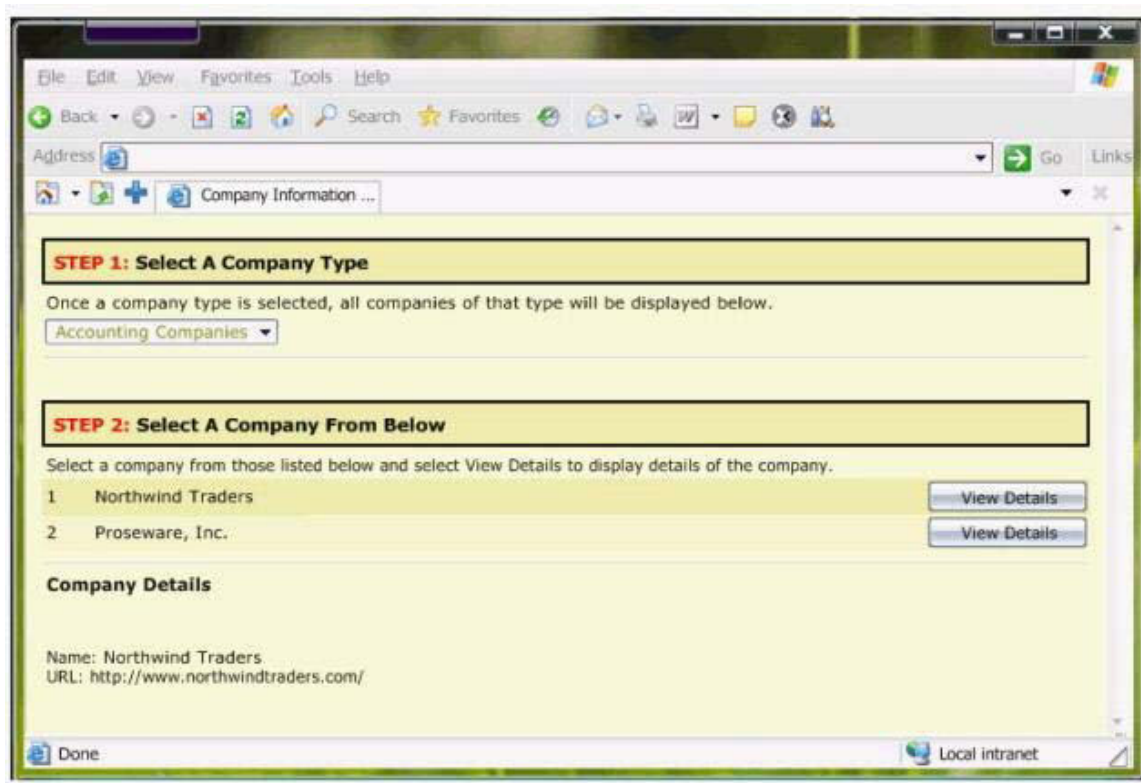
You create Web-based client applications. The application permits users to upload files to a network share. When anonymous users use the upload feature from the Web-based application, a custom error page is displayed. You need to ensure that anonymous users are able to use the application. What should you do?

- A. Change the ASP.NET configuration to impersonate a user account that has write permissions to the network share.
- B. Change the IIS application pool to use the System account.
- C. Change the Web.config file to impersonate the user account from the client account.
- D. Change the Machine.config file to use the System account.

Answer: A

Question: 64

You create Web-based client applications. You create an ASP.NET Web form that lists detailed company information. The company information is stored in a Microsoft SQL Server 2005 database. The Web form displays a drop-down list box that prompts the user to select a company type. On selection of the company type, the name of each company in the selected company type is displayed along with a button next to it. The button permits detailed contact information to be displayed for the company. Each button that is displayed along with a company name has a Text property value that is named View Details. The button is dynamically created based on the company type selected by the user. Each click event of the button is programmed to call a method named ShowDetails. The ShowDetails method displays the company details. The prototype of the Web form is as shown in the following exhibit. (Click the Exhibit button.) You test the Web form and find that the code seems to function properly. When you display the Web form and click the View Details button, nothing happens. You need to ensure that the Web form responds properly within the minimum amount of time. You also need to minimize coding effort. What should you do?



- A. In the Postback event handler for the company type drop-down list box, as each View Details button is dynamically created, call the Page_Load method to program the button into the ShowDetails method.
- B. In the Postback event handler for the company type drop-down list-box, as each View Details button is dynamically created, call the Page_Init event handler to program the button into the ShowDetails method.
- C. Create a Web User control that contains a preconfigured button that has the Text property set to View Details. Modify the code written for the control to call the ShowDetails method of the parent form. Instantiate instances of the control as necessary in the Postback event handler for the company type drop-down list box.
- D. Create a Web User control that contains a preconfigured button that has the Text property set to View Details. Modify the code written for the control to call the ShowDetails method of the parent form. Instantiate instances of the control as necessary in the Page_Init event handler for the company type drop-down list box.

Answer: C

Question: 65

You create Web-based client applications. You create an ASP.NET Web application that creates and manages online advertising campaigns. The ASP.NET Web application uses a Microsoft SQL Server 2005 database. You require the ASP.NET Web application to track the efficiency of the upcoming campaigns by comparing advertising results with campaign parameters. This requires adding a Web form that performs the following tasks: Uses a target URL for all online advertising. Logs the referrer URLs. Provides live reporting of referral data. You need to identify the most effective storage mechanism to log the referral data. Which mechanism should you choose?

- A. Text files
- B. Application log
- C. The database
- D. IIS log files

Answer: C

Question: 66

You create Web-based client applications. You identify a reusable software component that you need to use in your application. The component contains functionality to retrieve data from a database. However, the component does not include the functionality to change the color of a table cell when the user moves the mouse cursor into the cell. You need to add the effect of mouse cursor movement to the component in the most efficient way possible. What should you do?

- A. Create a new component that inherits from the existing component. Add the extended functionality of mouse cursor movement to the new component.
- B. Create a COM+ wrapper for the reusable software component. Add the extended functionality of the mouse cursor movement in the wrapper.
- C. Create a new component and make the existing component inherit from the new component. Add the extended functionality of the mouse cursor movement to the new component.
- D. Create your own custom reusable software component. Add the extended functionality of the mouse cursor movement to the new component.

Answer: A

Question: 67

You create Web-based applications. You create a loan application form. The loan application form is used to calculate the monthly payment of loans. The monthly payment is based on the loan amount, rate, and number of months. The form contains four text boxes and a button. There are no other controls in the form. The application event handler has the following lines of code. (Line numbers are included for reference only.)

```
01 Protected Sub GetPayment(ByVal sender As Object, ByVal e As EventArgs) 02 Try 03 Dim
rate As Decimal = Decimal.Parse(txtRate.Text) 04 Dim loanAmount As Decimal =
Decimal.Parse(txtLoan.Text) 05 Dim period As Integer = Integer.Parse(txtPeriod.Text) 06 Dim
monthlyPayment As Decimal = CalcPayment(rate, _ loanAmount, period) 07 txtPayment.Text =
monthlyPayment.ToString("C") 08 Catch ex As OverflowException 09 ... 10 Catch ex As
InvalidCastException 11 ... 12 Catch ex As Exception 13 ... 14 End Try 15 End Sub
```

You must prevent exceptions whenever possible to meet the application requirements. You need to evaluate the current exception handling mechanism. What should you conclude?

- A. The current exception handling mechanism meets the requirements. Nothing needs to be changed.

- B. The current exception handling mechanism does not meet the requirements. A required field validator and a range validator control must be added to validate each text box before the button is clicked.
- C. The current exception handling mechanism does not meet the requirements. A required field validator control must be added to validate each text box before the button is clicked.
- D. The current exception handling mechanism does not meet the requirements. A regular expression validator control must be added to validate each text box before the button is clicked.

Answer: B

Question: 68

You create Web-based client applications. You are creating an application to display the local weather details at the bottom of the home page. You include a third-party software component for this purpose. On testing, you find that the home page fails to load and throws a cryptic error message. The error message displays line numbers that represent the lines that call the third-party software component. You need to ensure that the home page loads even if the local weather details fail to display. You also need to ensure that the home page displays a message if the local weather report fails to display. You need to implement the solution in the shortest possible time. Which approach should you choose?

- A. Reference the third-party component inside the Try clause of a Try-catch-finally statement. In the Catch clause, write code to display a message saying the weather is unavailable. **B. Add a new third-party software component that can insert messages when the weather is unavailable.**
- C. Reference the third-party component inside the If clause of an If-then-else statement. In the Else clause, write code to display a message saying the weather is unavailable.
- D. Call the Dispose method of the component after you use it.

Answer: A

Question: 69

You create Web-based client applications. You are evaluating the configuration architecture of an application that connects to a database by using a connection string. This connection string contains a user name and a password. You place the connection string in the <connectionStrings> section of the Web.config file. You want to ensure that the connection string is protected. You need to decide the format in which to store the configuration attributes. What should you recommend?

- A. Encrypting the <protectedData> section, the <connectionStrings> section, and the <CipherData> section of the Web.config file.
- B. Encrypting the entire Web.config file.
- C. Encrypting the <connectionStrings> section of the Web.config file. **D. Encrypting the <connectionStrings> section and the <protectedData> section of the Web.config file.**

Answer: C

Question: 70

You create Web-based client applications. You create a public function for your application that must connect to a data source. The public function must also perform a series of updates to the data. Some of the operations will result in exceptions if there are errors. Your exception handling mechanism must meet the following requirements: Callers of the function must be able to ascertain whether the function succeeded or failed. If the function failed, callers of the function must be able to find where and why it failed.

If there is any error, the function must immediately stop processing. You need to identify the best exception handling mechanism. What should you do?

- A. Return an application-specific error code indicating overall success or failure of the function, with sub-codes indicating the stage where failure occurred.
- B. Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Do not return a status code or throw an exception if the function succeeds.
- C. Permit any exceptions that are thrown by called functions to propagate the call stack and throw an application-specific exception detailing the cause of failure if a local operation fails. Return a status code detailing whether the function succeeds or does not succeed.
- D. Return an application-specific exception that includes any caught exceptions or return null if the entire function succeeds.

Answer: B

Question: 71

You create Web-based client applications. You are creating a component. The component implements a document explorer for navigating the document tree and selecting documents for editing. The component will be used as a user interface element in your application as well as in other developers applications. You need to include the component easily on any page of your application or in any other developers application. You also need to permit other developers to use your component in the visual designer. How should you create the component?

- A. Create the component as an .aspx page that has embedded code blocks to draw the document tree and handle events. Instruct other developers to access your component by using ASP.NET `#include` statements.
- B. Create an ASP.NET master page that includes your component as a document explorer in the left navigation bar. Instruct other developers to create their pages as content pages that are associated to your master page.
- C. Create an ASP.NET user control to present the document explorer. Instruct other developers to include the source code for your user control in their projects.
- D. Create an ASP.NET Server control to present the document explorer. Instruct other developers to reference your server control from their projects.

Answer: D

Question: 72

You create Web-based client applications. You are designing a client application that will offer real-time multimedia services. The application must meet the following requirements: Enable playback of large video files. Perform consistently across connection speeds that vary. Control the amount of bandwidth that is consumed by each connection. You need to recommend an appropriate solution. What should you recommend?

- A. Use IIS to download multimedia files to play later.
- B. Use Microsoft Windows Media Services to download multimedia files to play later.
- C. Use Microsoft Windows Media Services to stream multimedia files.
- D. Use IIS to stream multimedia files.

Answer: C

Question: 73

You create Web-based client applications. You are creating a Web page that permits a user to enter information to apply for a loan. The amount that the user is permitted to request depends upon the type of the loan and the term of the loan. The Web page must perform the following tasks: Ensure that the user enters a valid loan amount. Prevent unnecessary trips to the server. You need to implement an appropriate validation strategy for the application. What should you do?

- A. Validate the data by using client-side scripting.
- B. Validate the data by using the CustomValidator control.
- C. Validate the data by using the RangeValidator control and the CompareValidator control.
- D. Validate the data after it is submitted to the server.

Answer: B

Question: 74

You create Web-based client applications. You are creating a Web-based discussion forum. The discussion forum will permit users to post and reply to discussion threads after logging on. You create the authentication mechanisms of your Web site. Microsoft SQL Server 2005 and the Active Directory directory service will continue to be used interchangeably for authentication. You need to provide a method for the users of the discussion forum to register. You also need to maintain the capability to use multiple authentication methods when the users register. Which method should you use?

- A. Create a custom component that provides a new user registration form and stores the results in XML that matches a defined schema, which can then be imported into any desired authentication scheme.
- B. Create a form that contains standard text boxes for the required user information. Use the post back of the form to pass the information to a custom class that is associated with the selected authentication scheme of the particular Web forum.
- C. Create a custom component that consumes the ASP.NET 2.0 Membership Provider Model and create custom Membership Providers.
- D. Create a form that contains a CreateUserWizard control and configure Membership Providers.

Answer: D

End of the Document