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MS.NET Framework 2.0-Web-based Client Development

Exam 70-529

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Question: 1

You write an XML Web service. The XML Web service contains Web methods that return large amounts of non-sensitive public data. The data is transferred over the Internet. You need to be able to detect if the data was tampered with during transit. The implementation must be configurable at run time. Your solution must minimize the impact on the performance of the Webservice.

What should you do?

- A. Configure the virtual directory to require the Secure Sockets Layer (SSL) protocol.
- B. Apply Web Services Enhancements (WSE) 3.0 security to the Web service that is configured to use an X.509 certificate with the Sign-Only protection level..
- C. Apply Web Services Enhancements (WSE) 3.0 security to the Web service that is configured to use an X.509 certificate with the Sign and Encrypt protection level.
- D. Configure the virtual directory that hosts the XML Web service to use basic authentication.

Answer: B

Question: 2

When you execute a client application, the following exception is thrown. EncryptedKeyToken is expected but not present in the security header of the incoming message. You discover that the exception is thrown when the client application invokes a Web service named Math with the following code. (Line numbers are included for reference only.)

```
01 try
02 {
03
MathWse^ ws = gcnew MathWse ();
04
int result = ws->Add(1, 2);
05 }
06 catch (Exception^ ex)
07 {
08
MessageBox::Show(ex->Message);
09 }
```

The client application and Web service have the same Web Services Enhancements (WSE) 3.0 policy. The policy configuration file contains the following policy section.

```
<policy name="Secure">
<anonymousForCertificateSecurity
establishSecurityContext="false"
renewExpiredSecurityContext="true"
requireSignatureConfirmation="false"
messageProtectionOrder="SignBeforeEncrypt"
requireDerivedKeys="true"
ttlInSeconds="300">
```

`<!-- XML defining the serviceToken and protection --> </anonymousForCertificateSecurity>`
`</policy>`

You need to ensure that the client application can communicate with the Web service. What should you do?

- A. Add the following code between lines 03 and 04.`ws->SetPolicy("Secure");`
Replace line 03 with the following code.`Math^ ws = gcnew Math();`
- B. Add the following code between lines 03 and 04.`UsernameToken^ u = gcnew UsernameToken("userid", "password");EncryptedKeyToken^ et = gcnew EncryptedKeyToken(u);ws->SetClientCredential(et);`
- C. Add the following code between lines 03 and 04.`ws->UseDefaultCredentials = true;`
- D. Add the following code between lines 03 and 04.`ws->SetPolicy("anonymousForCertificateSecurity");`

Answer: A

Question: 3

You write a SOAP extension to monitor a deployed Web service. You need to deploy the SOAP extension to the Web service without requiring a change to the compiled assemblies. You cannot use reflection to deploy the SOAP extension.

What should you do?

- A. Write a class that extends the SoapExtensionAttribute attribute, has the AttributeTargets.Method attribute applied, and returns an instance of the SOAP extension in the ExtensionType property.
- B. Extend the SoapExtensionImporter class and reference the class by using the SoapExtensionTypeElement in the Web.config file.
- C. Extend the SoapExtension class. Override the Initialize method to add the SOAP extension to the Web service by using the SoapExtensionReflector class.
- D. Add the SOAP extension to the Web service's Web service description language (WSDL) by using the WsdlHelpGeneratorElement element in the Web.config file.

Answer: B

Question: 4

You call a method in a Web service. The following exception is thrown in the Web service client.`System.Web.Services.Protocols.SoapException: Server was unable to process request. --> System.NullReferenceException: Object reference not set to an instance of an object.` You discover that it is the following line of code that throws the exception.`if (Session ["StoredValue"] == null).`

You need to ensure that the method runs without throwing the exception.

What should you do?

- A. Add the following elements to the System.Web section of the Web.config file.`<httpModules><add name="Session" type="System.Web.SessionState.SessionStateModule" /></httpModules>`

- B. In the client code for the Web service's proxy object, assign a new instance of the System.Net.CookieContainer object to the CookieContainer property.
- C. Add the following element to the System.Web section of the Web.config file.<sessionState mode="InProc" />
- D. Modify the WebMethod attribute in the Web service so that the EnableSession property is set to True.

Answer: D

Question: 5

A Web service exposes a method named GetChart that returns an image. The data used to generate the image changes in one-minute intervals. You need to minimize the average time per request for CPU processing.

What should you do?

- A. Set the CacheDuration property on the WebMethod attribute of the GetChart method to 60.
- B. Set the BufferResponse property on the WebMethod attribute of the GetChart method to False.
- C. Set the CacheDuration property on the WebMethod attribute of the GetChart method to 1.
- D. Set the BufferResponse property on the WebMethod attribute of the GetChart method to True.

Answer: A

Question: 6

A Web service application provides security data about employees to applications that control access to company facilities. The Web service is accessed by using TCP and is protected by using Web Services Enhancements (WSE) 3.0 security for message encryption. The company has added fingerprint readers to grant employees access to the facilities. Images of employee fingerprints are maintained by the Web service application. You need to ensure that the existing WSE security encryption policy can be applied to the fingerprint image. Your solution must minimize the size of the Web service message.

What should you do?

- A. Configure the Web service to use Message Transmission Optimization Mechanism (MTOM) to pass the binary fingerprint image.
- B. Configure the Web service to use base64 encoding to pass the binary fingerprint image.
- C. Create a SOAP filter to manage encryption for the message.
- D. Create a SOAP extension to manage encryption for the message.

Answer: A

Question: 7

An assembly named SimpleMathLib is deployed to the Bin folder that is under a virtual directory

named SimpleMathHost, which is on an IIS server named SERVER1. The SimpleMathLib assembly contains the following code.

```
Public Class SimpleMathClass Inherits MarshalByRefObject
Public Function Add(ByVal x As Double, ByVal y As Double) _ As Double
Return x + y
End Function
End Class
```

The Web.config file under the SimpleMathHost virtual directory contains the proper configuration to host SimpleMath as a remoting object. You write a client Console Application and add a reference to the SimpleMathLib assembly. You need to ensure that the client Console Application calls the Add method on SERVER1 and returns the correct sum of the parameters to the Console Application.

What should you do?

A. Write the following code in the client application.

```
Dim sm As SimpleMathClass = Type(Activator.CreateInstance(GetType(SimpleMathClass),
_ New String() {"http: //server1:80/SimpleMathHost/SimpleMath.rem", _
"SimpleMath.SimpleMathClass,
SimpleMathLib"
}), _ SimpleMathClass)
Console.WriteLine(sm.Add(2, 2).ToString())
```

B. Write the following code in the client application.

```
Dim sm As SimpleMathClass = _ CType(Activator.GetObject(GetType(SimpleMathClass),
_ "http://server1:80/SimpleMathHost/SimpleMath.rem"), SimpleMathClass)
Console.WriteLine(sm.Add(2, 2).ToString())
```

C. Write the following code in the client application.

```
Dim chan As New TcpChannel()
ChannelServices.RegisterChannel(chan, False)
Dim sm As New SimpleMathClass()
```

```
Console.WriteLine(sm.Add(2, 2).ToString())
```

D. Write the following code in the client application.

```
Dim sm As SimpleMathClass = _ CType(Activator.GetObject(GetType(SimpleMathClass),
_ "tcp://server1:80/SimpleMathHost/SimpleMath.rem"), SimpleMathClass)
Console.WriteLine(sm.Add(2, 2).ToString())
```

Answer: B

Question: 8

A message queue named SecureQueue requires incoming messages to be authenticated. When an application attempts to send a message to SecureQueue, the following exception is thrown. User's internal Message Queuing certificate does not exist. The following code is used to send the message. (Line numbers are included for reference only.)

```
01 MessageQueue mq = new MessageQueue(".\\SecureQueue");
02 Message m = new Message("Test Message");
03 m.UseAuthentication = true; 04 mq.Send(m);
```

You need to ensure that a message can be sent to SecureQueue without the exception being thrown.

What should you do?

- A.** Insert the following line of code between lines 03 and 04.`m.AuthenticationProviderType = CryptographicProviderType.RsqSig;`
- B.** Replace line 03 with the following line of code.`m.EncryptionAlgorithm = EncryptionAlgorithm.Rc4;`
- C.** Replace line 03 with the following line of code.`m.AttachSenderId = true;`
- D.** Insert the following line of code between lines 03 and 04.`m.AuthenticationProviderName = "RsqSig";`

Answer : C

Question: 9

A Windows-based application receives messages from a message queue named PriorityQueue. The client application sets the Priority property on the message before sending it. However, received Message objects do not have the Priority property assigned. The following code is used to receive the messages. (Line numbers are included for reference only.)

```
01 MessageQueue^ queue = gcnew MessageQueue(".\PriorityQueue");
02 Message^ m = queue->Receive();
03 Console::WriteLine(m->Priority);
```

You need to ensure that the Windows-based application that receives the messages can access the Priority property.

What should you do?

- A.** Insert the following code segment between lines 01 and 02.
`DefaultPropertiesToSend^ s = gcnew DefaultPropertiesToSend();s->Priority = MessagePriority::High;queue->DefaultPropertiesToSend = s;`
- B.** Insert the following line of code between lines 01 and 02.
`queue->MessageReadPropertyFilter->Priority = true;`
- C.** Replace line 01 with the following code segment.
`MessageQueue^ queue = gcnew MessageQueue(".\PriorityQueue", QueueAccessMode::ReceiveAndAdmin);`
- D.** Insert the following code segment between lines 01 and 02.
`queue->Formatter = gcnew System::Messaging::XmlMessageFormatter(gcnew array<Type^>
{
String::typeid
});`

Answer: B

Question: 10

You are writing an application that will run on a portable computer. The application uses a private queue named MyAppQueue to store messages. You need to ensure that the message is retained when the portable computer is restarted.

What should you do?

A. Write the following code segment to send the message.

```
MessageQueue^ q = gcnew MessageQueue(".$Private\MyAppQueue");  
Message^ m = gcnew Message("My message body");  
m->UseJournalQueue = true;q->Send(m, "message");
```

B. Write the following code segment to send the message.

```
MessageQueue^ q = gcnew MessageQueue(".$Private\MyAppQueue");  
Message^ m = gcnew Message("My message body");  
m->Recoverable = true;q->Send(m, "message");
```

C. Write the following code segment to send the message.

```
MessageQueue^ q = gcnew MessageQueue(".$Private\MyAppQueue");  
Message^ m = gcnew Message("My message body");  
m->Priority = MessagePriority::High;q->Send(m, "message");
```

D. Write the following code segment to send the message.

```
MessageQueue^ q = gcnew MessageQueue(".$Private\MyAppQueue");  
Message^ m = gcnew Message("My message body");  
MessageQueueTransaction^ trans = gcnew MessageQueueTransaction();  
trans->Begin();q->Send(m, "message", trans);  
trans->Commit();
```

Answer: B

Question: 11

A Windows Forms application calls in to a Web service named SensitiveData. The project has a Web reference named SensitiveDataWS. The code uses a class of type SensitiveDataWS.Service. SensitiveDataWS.Service is a proxy to the Web service. An administrator reports that users running the client application receive a SoapHeaderException exception with the following message text:

"Security requirements are not satisfied because the security header is not present in the incoming message".

You discover that the Web Services Enhancements (WSE) 3.0 policy file for the Web service was changed to require the encryption of SOAP messages. You acquire the X.509 certificate that is used for encryption in the Web service. You need to ensure that the Windows Forms application meets the new security requirements of the Web service.

What should you do?

A. In each Web method, assign an instance of the X509Certificate class that is initialized with the acquired X.509 certificate, to the ClientCertificates property of the SensitiveDataWS.Service class.

B. Apply WSE security to the Windows Forms project that is configured to use the acquired X.509 certificate with the Sign and Encrypt protection level. Renew the Web reference and modify the code to use the new SensitiveDataWS.ServiceWse class.

C. Apply WSE security to the Windows Forms project that is configured to use the acquired X.509 certificate with the Sign-Only protection level. Renew the Web reference and modify the code to use the new SensitiveDataWS.ServiceWse class.

D. In the Windows Forms project, create a custom class that inherits from the SoapHeader attribute class with a public property of type X509Certificate. Initialize the public property with the acquired X.509 certificate. Apply the created attribute to code in the client application that calls the Web service. Initialize the attribute with the name of the custom class.

Answer: B

Question: 12

A SOAP message has the following body.

```
<soap:Body> <tns:Greeting>  
<Person href="#id1" /> </tns:Greeting> <tns:User id="id1" xsi:type="tns:User">  
<GivenName xsi:type="xsd:string">givenname</GivenName>  
<SurName xsi:type="xsd:string">surname</SurName>  
</tns:User></soap:Body>
```

You need to configure the Greeting method to accept the SOAP message. Which code segment should you use?

- A.** <WebMethod()> _<SoapDocumentMethod(Use:=SoapBindingUse.Encoded)> _Public
Function Greeting(<XmlElement("Person")> ByVal user As User) ...
End Function
- B.** <WebMethod()> _<SoapDocumentMethod(Use:=SoapBindingUse.Literal)>
_Public Function Greeting(<SoapElement("Person")> ByVal user As User) ...
End Function
- C.** <WebMethod()> _<SoapDocumentMethod(Use:=SoapBindingUse.Literal)>
_Public Function Greeting(<XmlElement("Person")> ByVal user As User) ...
End Function
- D.** <WebMethod()> _<SoapDocumentMethod(Use:=SoapBindingUse.Encoded)>
_Public Function Greeting(<SoapElement("Person")> ByVal user As User) ...
End Function

Answer: D

Question: 13

You are writing an installation application for a Windows Forms application. The Windows Forms application requires a private message queue named MyQueue. You need to ensure that the message queue exists after installation.

What should you do?

- A.** Add an Installer class to the Windows Forms application project. Write the following code in the AfterInstall event for the Installer class.
Dim q As MessageQueue =
MessageQueue.Create(".\Private\$\MyQueue")
- B.** Add an Installer class to the Windows Forms application project. Write the following code in the AfterInstall event for the Installer class.
Dim q As New Queue(Of
Message)q.Enqueue(New Message(".\Private\$\MyQueue"))
- C.** Add an Installer class to the Windows Forms application project. Write the following code in

the AfterInstall event for the Installer class.
Dim q As New
MessageQueue(".\Private\$\MyQueue")

D. Add an Installer class to the Windows Forms application project. Write the following code in the AfterInstall event for the Installer class.
Dim q As New
Queue()q.Enqueue(".\Private\$\MyQueue")

Answer: A

Question: 14

An application contains .NET Framework Web services that are built by using Microsoft Visual Studio 2005.

Discovery information for these Web services must be made available to client applications. You need to expose the Disco files for all Web services in the application.

What should you do?

- A.** Use the Sproxy.exe tool to create the Disco files from the .wsdl files.
- B.** Add the description parameter to the WebService attribute in the class files.
- C.** Add a .vsdisco file to the application root and add the corresponding httpHandler to the Web.config file.
- D.** Add a set of Disco files to the application root and add the PageHandlerFactory httpHandler to the Web.config file.

Answer: C

Question: 15

A Web Services Enhancements (WSE) 3.0 router application uses a referral cache to make routing decisions.

When a client application sends a SOAP message to the WSE router application, the following exception is thrown.

Microsoft.Web.Services3.Addressing.AddressingFault: MessageInformation Header RequiredThe referral cache used by the WSE router application is as follows:

```
<?xml version="1.0" ?><r:referrals xmlns:r="http://schemas.xmlsoap.org/ws/2001/10/referral">
<r:ref>
<r:for>
<r:exact>
http://www.contoso.com/WSERouter/Service.asmx
</r:exact>
</r:for>
<r:if />
<r:go>
<r:via>http://www.contoso.com/WSEService/Service.asmx</r:via>
</r:go>
<r:refId>uuid:fa469956-0057-4e77-962a-81c5e292f2ae</r:refId> </r:ref>
</r:referrals>
```

You need to ensure that a SOAP message can be sent to the WSE router application without throwing the

AddressingFault exception. What should you do?

- A. Set the ConnectionGroupName property on the Web service client proxy to Allow Routing.
- B. Set the UserAgent property on the Web service client proxy to WSE 3.0.
- C. Set the AllowAutoRedirect property on the Web service client proxy to True.
- D. Change the Web service client proxy class definition so that it is derived from the Microsoft.Web.Services3.WebServicesClientProtocol class.

Answer: D

Question: 16

A file named Util.asmx contains the following code segment. (Line numbers are included for reference only.)

```
01 <%@ WebService Language="VB" Class="Util" %>
02
03 Public Class Util
04 Public Function GetData() As String
05 Return "data"
06 End Function
07 End Class
```

You need to expose the GetData method through a Web service. What should you do?

- A. Insert the following line of code between lines 02 and 03.<System.Web.Services.WebMethod()>_
- B. Insert the following line of code between lines 02 and 03.Inherits System.Web.Services.WebService
- C. Replace line 01 with the following line of code.<%@ WebService Language="VB" Class="System.Web.Services.WebService" %>
- D. Insert the following line of code between lines 01 and 02.<System.Web.Services.WebService()>_

Answer: A

Question: 19

You write a Web service that uses Web Services Enhancements (WSE) 3.0 for security. The Web service must support both the kerberosSecurity policy and the mutualCertificateSecurity policy. Both policies have the same options set for encryption and signatures. You need to ensure that the Web service can use either policy.

What should you do?

- A. Create one policy file that contains a policy element, which contains a kerberosSecurity policy element and a mutualCertificateSecurity policy element.

- B. Create one policy file that contains a policy element for the kerberosSecurity policy and a policy element for the mutualCertificateSecurity policy.
- C. Create two policy files: one with the kerberosSecurity policy, and the other with the mutualCertificateSecurity policy.
- D. Create two policy files: one with the Extensions element, and the other with a single policy element that contains both the kerberosSecurity policy element and the mutualCertificateSecurity policy element.

Answer: B

Question: 20

You are creating a Windows-based application that allows users to store photographs remotely by using a Web service. Both the Web service and the application are configured to use Web Services Enhancements (WSE)

3.0.

You need to configure the application to ensure that a photograph can be sent to the Web service.

What should you do?

A. Write the following code segment in the application.

```
ImageServiceWse^ serviceProxy = gcnew ImageServiceWse();
array<Byte>^ img = GetImageBytes();
serviceProxy->SaveImage(img, imageName);
```

B. Write the following code segment in the application.

```
ImageServiceWse^ serviceProxy = gcnew ImageServiceWse();
array<Byte>^ img = GetImageBytes();
serviceProxy->RequestSoapContext->Add(imageName, img);
serviceProxy->SaveImage(nullptr, imageName);
```

C. Write the following code segment in the application.

```
ImageService^ serviceProxy = gcnew ImageService();serviceProxy->UserAgent = "Microsoft
WSE 3.0"; array<Byte>^ img = GetImageBytes();
serviceProxy->SaveImage(img, imageName);
```

D. Write the following code segment in the application.

```
ImageService^ serviceProxy = gcnew ImageService();
serviceProxy->SoapVersion = SoapProtocolVersion::Soap12;
```

```
array<Byte>^ img = GetImageBytes();
serviceProxy->SaveImage(img, imageName);
```

Answer: A

Question: 21

You are creating a Web service. You need to add an operation that can be called without returning a message to the caller.

Which code should you use?

- A. [WebMethod][SoapDocumentMethod(OneWay = true)]public void ProcessName(string name) { ... }
- B. [WebMethod][OneWay()]public void ProcessName(string name) { ... }
- C. [WebMethod][SoapDocumentMethod(Action = "OneWay")]public void ProcessName(string name) { ... }
- D. [WebMethod][SoapDocumentMethod(OneWay = true)]public bool ProcessName(string name) { ... return false; }

Answer: A

Question: 22

A client application calls a Web service named Math. Both the client application and Math are configured with a Web Services Enhancements (WSE) 3.0 policy named Secure to validate anonymous access for certificate security. A Web reference to the Math Web service is added to the client application's project using Microsoft Visual Studio 2005. When the client application is built and executed, a SoapException exception is thrown with the following message. The security requirements are not met because the security header is not included in the incoming message. You need to ensure that the application runs without throwing the SoapException exception.

What should you do?

- A. Modify the Math proxy class so that it derives from the following protocol.
System::Web::Services::Protocols::SoapHttpClientProtocol
- B. Add the following attribute to the Math proxy class definition.
[Microsoft::Web::Services3::Policy("Secure")]
- C. Add the following attribute to the Math proxy class definition.
[Microsoft::Web::Services3::Policy("anonymousForCertificateSecurity")]
- D. Set the Name property for the WebServiceBindingAttribute attribute on the Math proxy class definition to MathWseSoap.

Answer: B

Question: 23

You create .NET Framework remoting components that must be deployed on an unattended application server.

IIS is not installed on the application server. Company policy requires that no changes be made to the application server except the deployment of approved custom code that is written by your development team.

You need to ensure that the components can run on the unattended application server.

What should you do?

- A. Create an ASP.NET Web service Web site to host the components.
- B. Create a Console Application project to host the components.
- C. Create a Windows-based application project to host the components.
- D. Create an ASP.NET Web application Web site to host the components.
- E. Create a Windows service to host the components.

Answer: E

Question: 24

A .NET Framework remoting server hosts a class library that contains the following class.

```
public class SimpleMathClass : MarshalByRefObject
{
    public void LogData(DataRow dr)
    { //Lengthy database calls ... }
}
```

Users of a Windows-based client application report that the application often becomes nonresponsive. You discover that the application makes calls to the LogData method that take several seconds to return. You need to ensure that calls to the LogData method can be processed without causing the client application to become nonresponsive.

What should you do?

- A.** Apply the SoapRpcMethodAttribute attribute to the LogData method and initialize its OneWay member to True.
- B.** Modify the method so that it is an anonymous method.
- C.** Apply the OneWayAttribute attribute to the LogData method.
- D.** Modify the class to implement the IAsyncResult interface.

Answer: C

Question: 25

A Windows service application must host a .NET Framework remoting class named SimpleMathClass.

SimpleMathClass must have the following method, which can be called remotely.

```
public double Add(double x, double y) { return x + y;}
```

You need to create the SimpleMathClass class.

What should you do?

A. A. Write the following class definition.

```
[AutomationProxy(true)]public class SimpleMathClass
{ public double Add(double x, double y)
{
    return x + y; }
}
```

B. Write the following class definition.

```
[Serializable]public class SimpleMathClass
{ public double Add(double x, double y)
{
    return x + y; }
}
```

C. Write the following class definition.

```
public class SimpleMathClass : MarshalByRefObject
```

```
{ public double Add(double x, double y)
{
return x + y; }
}
```

D. D. Write the following class definition.

```
public class SimpleMathClass : ServicedComponent
{ public double Add(double x, double y)
{
return x + y; }
}
```

Answer: C

Question: 26

You use Microsoft Visual Studio 2005 to create a custom Web service discovery system that contains Disco files for your Web services. You need to have the Disco file for each of your Web services for auditing purposes.

What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A.** Append the Disco parameter to the Web service's .asmx URL's querystring and save the returned data.
- B.** Open the Web service's Web services description language (WSDL) file and copy the method information into the Disco file for that Web service.
- C.** Append the Web services description language (WSDL) parameter to the Web service's .asmx URL's querystring and save the returned data.
- D.** Add a reference to the Web service in Visual Studio 2005 and use the generated Disco file.

Answer: A, D

Question: 27

You write a Web service that is called by two client applications named Client1 and Client2. The Web service must return a SOAP header that contains the date and time that the method executed. You discover that the date and time information for Client1 must be stored in a different XML format from the format used for Client2.

The client application that is making the request is specified as a property of the SOAP header. You need to ensure that date and time information is stored in the correct format for each client application. Your solution must not change the way that ASP.NET handles SOAP requests. What should you do?

- A.** Change the EncodedRelay property to the name of the method that will create the correct XML formatting for each client application.
- B.** Implement the IXmlSerializable interface in the SOAP header class to return the correct XML format for each client application in the WriteXml method.
- C.** Add the SoapElementAttribute attribute with the correct element name for the client application to the field that contains the date and time information.

D. Create two Xml Serializer classes and use the WriteHeaders method of the Soap Header Handling class to format the XML for each client application.

Answer: B

Question: 28

You are creating a Web service to expose the public methods on a class. Two overloaded methods are defined in the class as follows:

public Customer GetCustomer(string custId)

public Customer GetCustomer(string name, string postalCode)

You need to expose both methods on the Web service. Which code segment should you use?

- A.** [WebMethod][SoapDocumentMethod(Action="GetCustomerById")]public Customer GetCustomer(string custId){ ... }
[WebMethod][SoapDocumentMethod(Action="GetCustomerByName")]public Customer GetCustomer(string name, string postalCode){ ... }
- B.** [WebMethod][SoapDocumentMethod(RequestElementName="GetCustomerById")]public Customer GetCustomer(string custId){ ... }
[WebMethod][SoapDocumentMethod(RequestElementName="GetCustomerByName")]public Customer GetCustomer(string name, string postalCode){ ... }
- C.** [WebMethod(Description="GetCustomerById")]public Customer GetCustomer(string custId){ ... }
[WebMethod(Description="GetCustomerByName")]public Customer GetCustomer(string name, string postalCode){ ... }
- D.** [WebMethod(MessageName="GetCustomerById")]public Customer GetCustomer(string custId){ ... }
[WebMethod(MessageName="GetCustomerByName")]public Customer GetCustomer(string name, string postalCode){ ... }

Answer: D

Question: 29

You create a serviced component. You install the component into the COM+ catalog. COM+ runs on the server.

A Windows-based application that is installed on multiple desktop computers must use the component. The component must run on the server, but the Windows-based application must send component method calls over the network to the component. The communications protocol used is DCOM. You need to ensure that the Windows-based application can connect to the component.

What should you do?

- A.** In the client application, create the serviced component using the Marshal class to bind to the following moniker."dcom://MyComponents.MyServicedComponent"
- B.** Generate a proxy component for the serviced component and install it on the desktop computers that are running the client application. In the client application, create a reference

to the serviced component's assembly.

C. Generate a proxy component for the serviced component and install it on the desktop computers that are running the client application. In the client application, create a reference to the serviced component's type library.

D. In the client application, create the serviced component using the Marshal class to bind to the following moniker. "tcp://MyComponents.MyServicedComponent"

Answer: B

Question: 30

You create a .NET Framework remoting application that provides stock information to customers. The server component raises an event on the client computer when certain conditions are met. You need to ensure the server raises exactly one event for each client application that is registered for the event.

What should you do?

A. Configure the server class as a Singleton Server Activated Object (SAO) and check for duplicate client delegate methods before raising the event.

B. Configure the server class as a SingleCall Server Activated Object (SAO) and check for duplicate client delegate methods before raising the event.

C. Configure the server class as a Client Activated Object (CAO) and check for duplicate client delegate methods before raising the event.

D. Configure the server class as a Client Activated Object (CAO) and override the CreateObjRef method to check for duplicate client delegate methods before raising the event.

Answer: A

Question: 31

You create a Web service. The Web service must be deployed on a remote Web server. You need to ensure that the deployment does not place the source code for the Web service on the Web server.

What should you do?

A. Use the ASP.NET Compilation tool (Aspnet_compiler.exe) to compile the Web service locally. Move the resulting files to the Web server.

B. Add a CodeBehind attribute to the @WebService directive. Rebuild the Web service project and deploy it by using the Copy Web Site Wizard.

C. Add a Class attribute to the @WebService directive. Rebuild the Web service project and deploy it by using the Copy Web Site Wizard.

D. Move the contents of the development Web site to the Web server.

Answer: A

Question: 32

You write a client application that uses a Web service. The Web service is hosted in a Windows service application. The Web service can be called only by using TCP. You are provided with the

proxy that is enabled by Web Services Enhancements (WSE) 3.0. The proxy was generated by adding a Web reference by using Microsoft Visual Studio 2005. You need to ensure that the proxy calls the Web service correctly.

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

- A. Set the Action object in the SOAP request's addressing headers to the name of the Web service method you want to call.
- B. Set the Action object in the SOAP request's addressing headers to the TCP address of the Web service you want to call.
- C. On the Destination property of the proxy, set the TransportAddress property to the TCP address of the hosted Web service.
- D. Change the URL of the proxy to the TCP address of the hosted Web service.

Answer: A, D

Question: 33

An administrator reports that when a client application runs, the application throws a RemotingException exception with the message:

"Object '/40b4b673_e739_43df_abe4_ee269ff67173/0t_g9ytvvi_lgue2i9q5qrni_1.rem' has been disconnected or does not exist at the server". You discover the following information: The object causing the exception is configured as a Client Activated Object (CAO).The exception is thrown only if the client application is idle for more than five minutes. If the client application is idle for nine minutes, the client application shuts down and the user is logged out. You need to ensure that the CAO is available to the client application.

What should you do?

- A. Add the following XML to the App.config file for the client application.<configuration>

```
<system.runtime.remoting>
<application>
<lifetime leaseTime="999999999999" />
</application> </system.runtime.remoting></configuration>
```

- B. Add the following code to the CAO class.public override object InitializeLifetimeService() {

```
ILease lease =
(ILease)base.InitializeLifetimeService();
if (LeaseState.Initial == lease.CurrentState) {
lease.RenewOnCallTime = TimeSpan.FromMinutes(10); }
return lease;
}
```

- C. Add the following code to the CAO class.

```
public override object InitializeLifetimeService() { ILease lease =
(ILease)base.InitializeLifetimeService();
if (LeaseState.Initial == lease.CurrentState) {
lease.SponsorshipTimeout = TimeSpan.FromMinutes(10); }
return lease;
```

}

D. Add the following XML to the App.config file for the client

application.<system.runtime.remoting>

<application>

<lifetime leaseManagerPollTime="10m" /> </application></system.runtime.remoting>

Answer: B

Question: 34

You create an assembly named SimpleMathLib.dll. SimpleMathLib.dll contains a namespace named SimpleMath. SimpleMath contains a .NET Framework remoting class named SimpleMathClass that inherits from the MarshalByRefObject class. You deploy the SimpleMathLib assembly to the Bin folder under an IIS server virtual directory named SimpleMathHost that is on a server named Server1. You need to configure the server application to initialize the SimpleMathClass class so that the class can be called by remoting client applications.

What should you do?

A. Add the following XML code to the configuration element of the Web.config file in the SimpleMathHost virtual directory.

<configSections> <section name="simpleMath"

type="SimpleMath.SimpleMathClass,SimpleMathLib" /></configSections><simpleMath mode="SingleCall">

<url>http: //server1/SimpleMathHost/SimpleMath.soap</url></simpleMath>

B. Add the following XML to the configuration element of the Web.config file in the SimpleMathHost virtual directory.

<system.runtime.remoting> <application>

<service>

<wellknown mode="SingleCall"

type="SimpleMath.SimpleMathClass, SimpleMathLib"

objectUri="SimpleMath.soap"/>

</service> </application></system.runtime.remoting>

C. Add the following XML to the configuration element of the Web.config file in the SimpleMathHost virtual directory.

<appSettings> <add key="SimpleMath.SimpleMathClass,SimpleMathLib"

value="http: //server1/SimpleMathHost/SimpleMath.soap" /></appSettings>

D. Add the following XML code to the configuration element of the Web.config file in the SimpleMathHost virtual directory.

<system.runtime.remoting> <application>

<client>

<wellknown

type="SimpleMath.SimpleMathClass, SimpleMathLib"

url="http: //server1/SimpleMathHost/SimpleMath.soap"/>

</client> </application></system.runtime.remoting>

Answer: B

Question: 35

You are writing a .NET Framework remoting client application. The server application raises events to the client application using an interface named IBroadcaster and an event wrapper. The event wrapper and the interface are located in an assembly named General that is common to the client and server. The server configuration file is as follows:

```
<system.runtime.remoting>
<application>
<channels>
<channel ref="http" port="2020">
<serverProviders>
<formatter ref="binary" typeFilterLevel="Full" />
</serverProviders>
<clientProviders>
<formatter ref="binary" />
</clientProviders>
</channel>
</channels>
<service>
<wellknown mode="Singleton" type="Server.Broadcaster,
Server" objectUri="Broadcaster.soap" />
</service>
</application>
</system.runtime.remoting>
```

You need to ensure that the server can raise events on the client application. What should you do?

- A. Configure the remoting configuration file for the client application to use Server.Broadcaster, Server as the type in the wellknown element. Specify 0 as the port for the channel.
- B. Configure the remoting configuration file for the client application to use Server.Broadcaster, Server as the type in the wellknown element. Do not specify a port for the channel.
- C. Configure the remoting configuration file for the client application to use General.IBroadcaster, General as the type in the wellknown element. Do not specify a port for the channel.
- D. Configure the remoting configuration file for the client application to use General.IBroadcaster, General as the type in the wellknown element. Specify 0 as the port for the channel.

Answer: D

Question: 36

You are writing a .NET Framework remoting client application that must call two remoting servers.

The first server hosts an assembly that contains the following delegate and class definition.

```
public delegate bool IsValidDelegate(string number, Int16 code);
public class CreditCardValidator : MarshalByRefObject
```

```
{ public bool IsValid (string number, Int16 code) {
//some data access calls that are slow under heavy load
... }
}
```

The second server hosts an assembly that contains the following delegate and class definition.

```
public delegate float GetCustomerDiscountDelegate( int customerId);
public class PreferredCustomer { public float GetCustomerDiscount(int customerId) {
//some data access calls that are slow under heavy load
... }
}
```

You configure the remoting client application to call both server classes remotely. The amount of time it takes to return these calls varies, and long response times occur during heavy load times. The processing requires the result from both calls to be returned. You need to ensure that calls to both remoting servers can run at the same time.

What should you do?

A. Write the following code segment in the client application.

```
PreferredCustomer pc = new PreferredCustomer();
GetCustomerDiscountDelegate del1 = new
GetCustomerDiscountDelegate(pc.GetCustomerDiscount);
IAsyncResult res1 = del1.BeginInvoke(1001, null, null);
CreditCardValidator val = new CreditCardValidator();
IsValidDelegate del2 = new IsValidDelegate( val.IsValid);
IAsyncResult res2 = del2.BeginInvoke("4111-2222-3333-4444" , 123, null, null);
WaitHandle[] waitHandles = new WaitHandle[]
{res1.AsyncWaitHandle, res2.AsyncWaitHandle};
ManualResetEvent.WaitAll(waitHandles);
double discount = del1.EndInvoke(res1);
bool isValid = del2.EndInvoke(res2);
```

B. Write the following code segment in the client application.

```
PreferredCustomer pc = new PreferredCustomer();
GetCustomerDiscountDelegate del1 = new
GetCustomerDiscountDelegate(pc.GetCustomerDiscount);
CreditCardValidator val = new CreditCardValidator();
IsValidDelegate del2 = new IsValidDelegate(val.IsValid);
double discount = del1.Invoke(1001);
bool isValid = del2.Invoke("4111-2222-3333-4444", 123);
```

C. Write the following code segment in the client application.

```
PreferredCustomer pc = new PreferredCustomer();
GetCustomerDiscountDelegate del1 = new
GetCustomerDiscountDelegate(pc.GetCustomerDiscount);
IAsyncResult res1 = del1.BeginInvoke(1001, null, null);
double discount = del1.EndInvoke(res1);
CreditCardValidator val = new CreditCardValidator();
IsValidDelegate del2 = new IsValidDelegate( val.IsValid);
IAsyncResult res2 = del2.BeginInvoke("4111-2222-3333-4444", 123, null, null);
```

```
bool isValid = del2.EndInvoke(res1);
```

D. Write the following code segment in the client application.

```
PreferredCustomer pc = new PreferredCustomer();  
CreditCardValidator val = new CreditCardValidator();  
double discount = pc.GetCustomerDiscount(1001);  
bool isValid = val.IsValid("4111-2222-3333-4444", 123);
```

Answer: A

Question: 37

You write a Web service that processes multiple SOAP headers, including one named HeaderA. You examine the HTTP log and find that an unknown SOAP header is included in the client application requests. Your Web service must process all headers. You need to indicate to the client application that the unknown SOAP header is unexpected. What should you do?

- A.** Check the MustUnderstand property of the unknown SOAP header. If the property value is set to True, throw a SoapHeaderException exception.
- B.** Set the DidUnderstand property of the unknown SOAP header to False.
- C.** Check the DidUnderstand property of the unknown SOAP header. If the property value is set to True, throw a SoapHeaderException exception.
- D.** Set the MustUnderstand property of the unknown SOAP header to False.

Answer: B

Question: 38

A message queue named SecureQueue requires each incoming message to be encrypted. You need to ensure that a message can be sent to the SecureQueue queue without an exception being thrown.

What should you do?

- A.** Set the EncryptionAlgorithm property on the message to a value from the EncryptionAlgorithm enumeration.
- B.** Set the UseEncryption property on the message to True.
- C.** Set the HashAlgorithm property on the message to a value from the HashAlgorithm enumeration.
- D.** Use the CryptoStream class to encrypt the Body property on the message.

Answer: B

Question: 39

A Web service returns a Node object X that references Node object Y. Node object Y also references Node object X. When the Web service method is called in a way that returns Node object X, the following exception is thrown. System.InvalidOperationException: A circular reference was detected while serializing an object of type Node. You need to ensure that the Web service method runs without generating the exception. Your code must preserve the circular reference between the Node objects.

What should you do?

- A. Add the following attribute to the Web service method.<SoapRpcMethod(Binding:="Encoded")>
- B. Add the following attribute to the Web service method.<SoapRpcMethod(Binding:="Literal")>
- C. Add the following attribute to the Web service method.<SoapRpcMethod(Use:=SoapBindingUse.Literal)>
- D. Add the following attribute to the Web service method.<SoapRpcMethod(Use:=SoapBindingUse.Encoded)>

Answer: D

Question: 40

You are converting an application to use .NET Framework remoting. The server portion of the application monitors stock prices and contains a class named StockPriceServer, which is a Server Activated Object (SAO). The client computer interacts with the server using a common assembly. When the server attempts to raise an event on the client computer, the server throws the following exception.

System.IO.FileNotFoundException.

You discover that the event delegate is not being called on the client computer. You need to ensure that the server application can raise the event on the client computer.

What should you do?

- A. Add the event delegate to the common assembly. Implement the Add delegate and the Remove delegate methods of the event in the StockPriceServer class to reference the delegate method in the client application.
- B. Raise the event using the BeginInvoke method and pass a reference to the client computer.
- C. In the common assembly, add an interface that contains the event and a method to raise the event. Implement that interface in the StockPriceServer class and use the interface's event to register the delegate message on the client computer.
- D. Add the Serializable attribute to the StockPriceServer class and change the event to use one of the standard common language runtime (CLR) delegates.

Answer: C

Question: 41

You write a .NET Framework remoting application that broadcasts messages to client computers through a central server by raising events on the client computers. Message details are contained in an argument in the event delegate, as shown in the following code segment.

```
public delegate void MessageArrivedHandler(BroadcastEventArgs args);
public class BroadcastEventArgs {
    public string Message;
    public string Sender;
    public DateTime TimeSent;
}
```

You need to ensure that the client computer can access the message details contained in the event argument.

Your solution cannot change the common language runtime (CLR) security restrictions. What

should you do?

- A.** Apply the Serializable attribute to the BroadcastEventArgs object.
- B.** Change the BroadcastEventArgs class so that it extends the MarshalByRefObject object.
- C.** Add the well-known type named BroadcastEventArgs in the server and configure the WellKnownObjectMode mode as SingleCall.
- D.** In the client application's remoting configuration file, make the BroadcastEventArgs class a client-activated object (CAO) that points to the server.

Answer: A

Question: 42

A Web service application uses Web Services Enhancements (WSE) 3.0. A class named RejectUnknownActorFilter is derived from the SoapFilter class. The RejectUnknownActorFilter class throws a SoapException exception if the request contains an unexpected actor. A class defines a policy assertion as follows. (Line numbers are included for reference only.)

01

Public Class RequireActorAssertion

02

Inherits PolicyAssertion

03

**Public Overrides Function CreateClientInputFilter(ByVal _
context As FilterCreationContext) As SoapFilter**

04

Return Nothing

05

End Function

06

07

**Public Overrides Function CreateClientOutputFilter(ByVal _
context As FilterCreationContext) As SoapFilter**

08 Return Nothing

09

End Function

10

11

**Public Overrides Function CreateServiceInputFilter(ByVal _
context As FilterCreationContext) As SoapFilter**

12 Return Nothing

13

End Function

14

15

**Public Overrides Function CreateServiceOutputFilter(ByVal _
context As FilterCreationContext) As SoapFilter**

16 Return Nothing

17

End Function

18

End Class

You need to ensure that the Web service rejects any SOAP request that contains an unexpected actor.

Your code must minimize the server resources used to process the request. What should you do?

- A. Replace line 08 with the following line of code.`Return New RejectUnknownActorFilter()`
- B. Replace line 12 with the following line of code.`Return New RejectUnknownActorFilter()`
- C. Replace line 16 with the following line of code.`Return New RejectUnknownActorFilter()`
- D. Replace line 04 with the following line of code.`Return New RejectUnknownActorFilter()`

Answer: B

Question: 43

You are writing a Web service application that uses Web Services Enhancements (WSE) 3.0 policies. The Web service request and response data must be signed. Routing occurs between the client and server computers, and uses the Action SOAP header of the SOAP messages. You need to ensure that the SOAP signature is not invalidated when the SOAP message is routed. What should you do?

- A. Sign the SOAP request with a UserName token that includes a password to allow the SOAP message to be signed again during routing.
- B. In the policy file, set the signatureOptions attribute to IncludeSoapBody.
- C. Sign a SOAP request that encapsulates the initial SOAP request.
- D. In the policy file, set the signatureOptions attribute to IncludeAddressing.

Answer: B

Question: 44

You extend the SoapExtension class to implement a SOAP extension. You need to override the ChainStream method to implement the SOAP extension functionality correctly.

What should you do?

- A. Register event listeners that will modify data for the input and output streams that the SOAP extension will use.
- B. Create and return a new stream that will be used to send data down the chain. Save a reference to the stream that is coming from higher on the chain.
- C. Save references to the input and output streams that the SOAP extension will use to send and receive data.
- D. Add the SOAP extension to the position in the SOAP extension chain that assigns the appropriate priority.

Answer: B

Question: 45

You are writing an application that provides a graphical administrative interface to a message queue that displays information about the messages. The GUI is updated in the AdminFunction function. You need to ensure that the GUI is updated without unnecessary delay, and that processed messages contain the most recent message contents.

What should you do?

A. Read the messages from the message queue and update the GUI by using the following code segment.

```
MessageQueue queue = new MessageQueue(queueName, QueueAccessMode.Peek);
Cursor queueCursor = queue.CreateCursor();
Message m = queue.Peek(timeout, queueCursor, PeekAction.Current);
while (m != null) { AdminFunction(m);
m = queue.Peek(timeout, queueCursor, PeekAction.Next);
}
```

B. Read the messages from the message queue and update the GUI by using the following code

```
segment.MessageQueue queue = new MessageQueue(queueName,
QueueAccessMode.Peek);
Cursor cursor = queue.CreateCursor();
Message m = queue.Peek();
while (m != null) { AdminFunction(m);
m = queue.Peek();
}
```

C. Read the messages from the message queue and update the GUI by using the following code

```
segment.MessageQueue queue = new MessageQueue(queueName,
QueueAccessMode.Peek);
Message[] messages = queue.GetAllMessages();
for (int i = 0; i < messages.Length; i++)
{
AdminFunction(messages[i]);
}
```

D. Read the messages from the message queue and update the GUI by using the following code

```
segment.MessageQueue queue = new MessageQueue(queueName,
QueueAccessMode.Peek);
MessageEnumerator messages = queue.GetMessageEnumerator2();
while (messages.MoveNext())
{
AdminFunction(messages.current);
}
```

Answer: D

Question: 46

You create a Web service that will be deployed to a production Web server. You need to ensure

that the first Web service request returns a response in the shortest amount of time possible. What should you do?

- A.** Run the ASP.NET Compilation tool (Aspnet_compiler.exe) on the Web service project. Copy the generated files to the Web server.
- B.** Build the Web service project on the development platform. Deploy the .asmx files and the contents of all subdirectories to the Web server.
- C.** Set the CodeBehind attribute on the @WebService directive. Deploy the .asmx files and the source code files to the Web server.
- D.** In the Web.config file, set the batch attribute in the compilation element to True. Deploy the .asmx files and the source code files to the Web server.

Answer: A

Question: 47

You are writing an application that calls a Web service. The application must call the Web service asynchronously and also perform a small amount of processing while the Web service is running. The return value from the Web service is required for additional processing. You need to ensure that the application can call the Web service asynchronously and also process the return value. Your solution must keep processor cycles to a minimum. What should you do?

- A.** Implement the Web service call as follows:
`ProcessService^ serviceProxy = gcnew ProcessService();
IAsyncResult^ asyncResult = serviceProxy->BeginProcess(data,
gcnew AsyncCallback(&Processor::ProcessHandler),serviceProxy);
PerformProcessing();
PerformAdditionalProcessing(ret);`
- B.** Implement the Web service call as follows:
`ProcessService^ serviceProxy = gcnew ProcessService();
IAsyncResult^ asyncResult =
serviceProxy->BeginProcess(data,nullptr,nullptr);
PerformProcessing();
while (!asyncResult->IsCompleted){ }String^ ret = serviceProxy->EndProcess(asyncResult);
PerformAdditionalProcessing(ret);`
- C.** Implement the Web service call as follows:
`ProcessService^ serviceProxy = gcnew ProcessService();
IAsyncResult^ asyncResult =
serviceProxy->BeginProcess(data, nullptr, nullptr);
String^ ret = serviceProxy->EndProcess(asyncResult);
PerformProcessing();
PerformAdditionalProcessing(ret);`
- D.** Implement the Web service call as follows:
`ProcessService^ serviceProxy = gcnew ProcessService();
IAsyncResult^ asyncResult =
serviceProxy->BeginProcess(data, nullptr, nullptr);`

```
PerformProcessing();
String^ ret = serviceProxy->EndProcess(asyncResult);
PerformAdditionalProcessing(ret);
```

Answer: D

Question: 48

A Console Application calls a Web service named SessionStateService five times, sequentially. The IncrementSessionCounter Web service method increments and returns an integer value that is held in a cookie. (Line numbers are included for reference only.)

```
01
void IncrementSession5Times() {
02
    SessionStateService service = null;
03
04
    for (int i = 0; i < 5; i++) {
05
06
        Console.WriteLine("Loop Pass {0} - result = {1}",
07
            i,
08
            service.IncrementSessionCounter());
09
    }

10
}
```

You need to ensure that when the IncrementSession5Times method is run, the following output is displayed.

Loop Pass 0 - result = 1Loop Pass 1 - result = 2Loop Pass 2 - result = 3Loop Pass 3 - result = 4Loop Pass 4 - result = 5

What should you do?

- A.** Replace line 03 with the following code.
CookieContainer cookies = new CookieContainer();
Replace line 05 with the following code.
SessionStateService service = new SessionStateService();
service.CookieContainer = cookies;
- B.** Replace line 03 with the following code.
SessionStateService service = new SessionStateService();
- C.** Replace line 05 with the following code.
SessionStateService service = new SessionStateService();
CookieContainer cookies = new CookieContainer();
service.CookieContainer = cookies;
- D.** Replace line 03 with the following code.

```
CookieContainer cookies = new CookieContainer();  
Replace line 05 with the following code.SessionStateService service = new  
SessionStateService();cookies.GetCookies(new Uri(service.Url));
```

Answer: A

Question: 49

You are writing an application that creates network accounts for users. The application monitors a private queue and it creates network accounts when messages arrive in that queue. A message contains a User object. The message is sent to the queue using the following code.

```
MessageQueue^ q = gcnew MessageQueue(queueName);  
Message^ m = gcnew Message(gcnew User("anna", "bedecs"));  
q->Send(m, "create account");
```

**You need to ensure that the application can process the User object.
What should you do?**

A. Write the following code segment to get the User object.

```
q->ReceiveById("User");  
Message^ m = q->Receive();  
User^ u = dynamic_cast<User^>(m->Body);
```

B. Write the following code segment to get the User object.

```
q->ReceiveById("User");  
m = q->Receive();  
m->BodyType = 5;  
User^ u = dynamic_cast<User^>(m->Body);
```

C. Write the following code segment to get the User object.

```
q->Formatter = gcnew XmlMessageFormatter();  
m = q->Receive();  
User^ u = dynamic_cast<User^>(m->Body);
```

D. Write the following code segment to get the User object.

```
array<Type^>^ types = {User::typeid};  
q->Formatter = gcnew XmlMessageFormatter(types);  
Message^ m = q->Receive();  
User^ u = dynamic_cast<User^>(m->Body);
```

Answer: D

Question: 50

You are creating a Windows-based application that allows users to store photographs remotely by using a Web service. The Web service is configured to use Web Services Enhancements (WSE) 3.0, and it has the following configuration XML in its Web.config file.

```
<microsoft.web.services3> <messaging>  
<mtom serverMode="always"/>  
</messaging></microsoft.web.services3>
```

You need to configure the application to ensure that a photograph can be sent to the Web service.

What should you do?

- A. Add the following XML to the application's App.config file. <microsoft.web.services3>
<messaging>
<mtom clientMode="Off" /> </messaging></microsoft.web.services3>
- B. Add the following XML to the application's App.config file. <microsoft.web.services3>
<messaging>
<mtom serverMode="always" /> </messaging></microsoft.web.services3>
- C. Add the following XML to the application's App.config file. <microsoft.web.services3>
<messaging>
<mtom clientMode="On" /> </messaging></microsoft.web.services3>
- D. Add the following XML to the application's App.config file. <microsoft.web.services3>
<messaging>
<mtom serverMode="never" /> </messaging></microsoft.web.services3>

Answer: C

Question: 51

A Windows service application must host a .NET Framework remoting class named SimpleMathClass.

SimpleMathClass must have the following method, which can be called remotely.

Public Function Add(ByVal x As Double, ByVal y As Double) _ As Double

Return x + y

End Function

You need to create the SimpleMathClass class.

What should you do?

A. Write the following class definition.

```
<AutomationProxy(True)> _Public Class SimpleMathClass
Public Function Add(ByVal x As Double, ByVal y As Double) _
As Double
Return x + y
End Function
End Class
```

B. Write the following class definition.

```
Public Class SimpleMathClass Inherits MarshalByRefObject
Public Function Add(ByVal x As Double, ByVal y As Double) _
As Double
Return x + y
End Function
End Class
```

C. Write the following class definition.

```
Public Class SimpleMathClass Inherits ServicedComponent
Public Function Add(ByVal x As Double, ByVal y As Double) _
As Double
Return x + y
```

End Function

End Class

D. Write the following class definition.

```
<Serializable()> _Public Class SimpleMathClass
```

```
Public Function Add(ByVal x As Double, ByVal y As Double) _
```

```
As Double
```

```
Return x + y
```

```
End Function
```

```
End Class
```

Answer: B

Question: 52

An administrator reports that a .NET Framework remoting application named MyServer has poor performance.

You want to observe the application's performance during a high-activity time period. You run System Monitor on the computer that is running MyServer. You need to add the correct performance counter to the details view of System Monitor.

What should you do?

A. Add the MyServer instance of the Remote Calls/sec counter from the .NET CLR Remoting performance object.

B. Add the _Global_ instance of the Total Remote Calls counter from the .NET CLR Remoting performance object.

C. Add the MyServer instance of the Total Remote Calls counter from the .NET CLR Remoting performance object.

D. Add the _Global_ instance of the Remote Calls/sec counter from the .NET CLR Remoting performance object.

Answer: A

Question: 53

A .NET Framework application receives messages from a private message queue named MyQueue. The private queue exists on a computer named APPSERVER1. A user in a domain named CONTOSO has the username dhall. This user reports that when he attempts to run the application, he receives a MessageQueueException exception with the error message text "Access to Message Queuing system is denied." You need to ensure that CONTOSO\dhall can receive messages from MyQueue using the .NET Framework application. Your solution must not give dhall unnecessary privileges.

What should you do?

A. Write the following code segment.

```
MessageQueuePermissionEntry mqpe =
```

```
new MessageQueuePermissionEntry( MessageQueuePermissionAccess.Administer
```

```
, @"APPSERVER1\Private$\MyQueue ", @"contoso\dhall" , null );
```

```
MessageQueuePermission p = new MessageQueuePermission(new
```

```
MessageQueuePermissionEntry[] { mqpe  
});  
p.Demand();
```

B. Write the following code segment.

```
MessageQueue q = new MessageQueue(@"APPSERVER1\Private$\MyQueue");  
q.SetPermissions(@"contoso\dhall", MessageQueueAccessRights.GenericRead);
```

C. Write the following code segment.

```
MessageQueuePermissionEntry mqpe = new MessageQueuePermissionEntry(  
MessageQueuePermissionAccess.Receive, @"APPSERVER1\Private$\MyQueue",  
@"contoso\dhall", null );  
MessageQueuePermission p = new MessageQueuePermission(new  
MessageQueuePermissionEntry[] { mqpe  
});  
p.Demand();
```

D. Write the following code segment.

```
MessageQueue q = new MessageQueue(@"APPSERVER1\Private$\MyQueue");  
q.SetPermissions(@"contoso\dhall", MessageQueueAccessRights.FullControl);
```

Answer: B

Question: 54

A client application must connect to a .NET Framework remoting class that is running in a Windows service that is deployed to a computer named APPSERVER1. The class is named SimpleMathClass and it exists within a namespace named SimpleMath in an assembly named SimpleMathLib. It is exposed through the TCP and it is configured with the objectUri attribute set to SimpleMath.rem. You write the following XML configuration settings in the App.config file of the client application.

```
<configuration> <system.runtime.remoting>  
<application>  
</application>  
</system.runtime.remoting></configuration>
```

You need to ensure that the client application can connect to the remoting class. What should you do?

A. Add the following XML configuration settings to the application element of the client application's App.config file. <service name="SimpleMathHost"> <wellknown mode="Singleton" type="SimpleMath.SimpleMathClass, SimpleMathLib" objectUri="SimpleMath.rem"/></service>

B. Add the following XML configuration settings to the application element of the client application's App.config file. <service name="SimpleMathHost"> <wellknown mode="SingleCall" type="SimpleMath.SimpleMathClass, SimpleMathLib" objectUri="SimpleMath.rem"/></service>

C. Add the following XML configuration settings to the application element of the client application's App.config file. <client> <wellknown type="SimpleMath.SimpleMathClass, SimpleMathLib" url="tcp://APPSERVER1:3085/SimpleMath.rem"/></client>

D. Add the following XML configuration settings to the application element of the client application's App.config file.<client> <wellknown type="SimpleMath.SimpleMath, SimpleMath" url="http://APPSERVER1:3085/SimpleMathHost/SimpleMath.rem"/></client>

Answer: C

Question: 55

You are creating a Web service. The Web service must be configured to receive the following message.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:Body>
<givenName xmlns="urn:SampleNS">given name</givenName>
<surname xmlns="urn:SampleNS">surname</surname>
</soap:Body>
</soap:Envelope>
```

You need to ensure that the Web Services Description Language (WSDL) for the Web service describes the message.

What should you do?

A. Write the following code for the Web method.<WebMethod()>

```
_<SoapDocumentMethod(ParameterStyle:=SoapParameterStyle.Wrapped,
```

```
Use:=SoapBindingUse.Encoded)>
```

```
_Public Function HelloWorld(ByVal firstName As String, ByVal lastName As String) ...End
Function
```

B. Write the following code for the Web method.<WebMethod()>

```
_<SoapDocumentMethod(ParameterStyle:=SoapParameterStyle.Bare,
```

```
Use:=SoapBindingUse.Encoded)>
```

```
_Public Function HelloWorld(ByVal firstName As String, ByVal lastName As String) ...End
Function
```

C. Write the following code for the Web method.<WebMethod()>

```
_<SoapDocumentMethod(ParameterStyle:=SoapParameterStyle.Bare,
```

```
Use:=SoapBindingUse.Literal)> _Public
```

```
Function HelloWorld(ByVal firstName As String, ByVal lastName As String) ...End Function
```

D. Write the following code for the Web method.<WebMethod()>

```
_<SoapDocumentMethod(ParameterStyle:=SoapParameterStyle.Wrapped,
```

```
Use:=SoapBindingUse.Literal)>
```

```
_Public Function HelloWorld(ByVal firstName As String, ByVal lastName As String) ...End
Function
```

Answer: C

Question: 56

You are debugging a Web service application that uses Web Services Enhancements (WSE) 3.0.

When you attempt to view tracing information for the Web service requests, you discover that the log file is not being updated as expected. You need to ensure that the log file is updated.

What should you do?

A. Add the following XML to the configuration section of the Web.config file.<system.diagnostics>

<switches> <add name="WseTracing" value="InputTrace.webinfo"/>

</switches></system.diagnostics>

B. Add the following XML to the configuration section of the Web.config file.

<microsoft.web.services3> <trace enabled="true" input="InputTrace.webinfo" /></microsoft.web.services3>

C. Add the following XML to the system.web section of the Web.config file.<trace enabled="true" configSource="InputTrace.webinfo"

writeToDiagnosticsTrace="true"/>

D. Add the following XML to the configuration section of the Web.config file.<microsoft.web.services3> <diagnostics>

<trace enabled="true" input="InputTrace.webinfo" />

</diagnostics></microsoft.web.services3>

Answer: D

Question: 57

You are creating a Web service by using ASP.NET. You need to ensure that the Web Services Description Language (WSDL) file that is generated is Web services interoperability (WS-I) compliant and that it allows message validation.

What should you do?

A. Add the following attribute definition to the Web service.

<SoapRpcMethod(Use:=SoapBindingUse.Literal)>

B. Add the following attribute definition to the Web service.

<SoapDocumentMethod(Use:=SoapBindingUse.Literal)>

C. Add the following attribute definition to the Web service.<SoapDocumentMethod(Use:=SoapBindingUse.Encoded)>

D. Add the following attribute definition to the Web service.<SoapRpcMethod(Use:=SoapBindingUse.Encoded)>

Answer: B

Question: 58

A .NET Framework remoting server hosts a class library that contains the following class.

```
public class SimpleMathClass : MarshalByRefObject{ public int LogData(DataRow dr)
{ //Lengthy database calls ... }
}
```

Users of a Windows-based client application report that the application often becomes nonresponsive. You

discover that the application makes calls to the LogData method that take several seconds to return. The return value is required to generate reports in the client application. You need to ensure that calls to the LogData method can be processed without making the client application nonresponsive.

What should you do?

- A. Call the LogData method by using the ThreadPool.QueueUserWorkItem method.
- B. In the client code, declare a delegate that has the same signature as the LogData method. On the client application's main thread, call the delegate's BeginInvoke method and pass in the necessary data. On a second thread, call the EndInvoke method on the delegate to get the results.
- C. In the client code, declare a delegate that has the same signature as the LogData method. On the client application's main thread, call the delegate's Invoke method and pass in the necessary data. On a second thread, call the GetObjectData method on the delegate to get the results.
- D. Apply the OneWay attribute to the LogData method.

Answer: B

Question: 59

You build Web services by using Microsoft Visual Studio 2005. Some of the Web services are hosted in IIS.

You need to ensure that remote systems cannot dynamically discover which Web services are hosted in IIS.

What should you do?

- A. In the Application Mappings section of the IIS Application Configuration dialog box, remove the .asmx extension.
- B. In the Application Mappings section of the IIS Application Configuration dialog box, remove the .vsdisco extension.
- C. In the Application Mappings section of the IIS Application Configuration dialog box, remove the .axd extension.
- D. In the Application Mappings section of the IIS Application Configuration dialog box, remove the .ashx extension.

Answer : B

Question: 60

A Windows service application must host a .NET Framework remoting class named SimpleMathClass.

SimpleMathClass must have the following method, which can be called remotely.

public: double Add(double x, double y) { return x + y;}

You need to create the SimpleMathClass class.

What should you do?

A. Write the following class definition.

```
public ref class SimpleMathClass : public MarshalByRefObject { public: double Add(double x, double y) { return x + y; }  
};
```

B. Write the following class definition.

```
[Serializable]public ref class SimpleMathClass { public: double Add(double x, double y) {  
return x + y; }  
};
```

C. Write the following class definition.

```
public ref class SimpleMathClass : public ServicedComponent { public: double Add(double x,  
double y) {  
return x + y; }  
};
```

D. Write the following class definition.

```
[AutomationProxy(true)]public ref class SimpleMathClass { public: double Add(double x,  
double y) {  
return x + y; } };
```

Answer: A, B

Question: 61

You create a Web service. The method in the Web service maintains session information between calls. When a client invokes the method, the following exception is thrown.

System.Web.Services.Protocols.SoapException: Server was unable to process request. ---> System.NullReferenceException: Object reference not set to an instance of an object. You need to ensure that the Web service method can be called without generating an exception.

What should you do?

A. Set the `ConformsTo` property in the `WebServiceBindingAttribute` attribute to `WsiProvfiles.BasicProfile1_1`.

B. Set the `EnableSession` property of the `WebMethod` attribute to `True`.

C. Use the `WebService.Session` object instead of the `HttpContext.Session` object to access the session variables.

D. Set the `AllowAutoRedirect` property on the proxy class on the Web service client to `True`.

Answer: B

Question: 62

Users report that a Windows-based application does not run properly. When users attempt to complete a particular action, the following error message text appears.

Unable to find assembly 'myservices, Version=1.0.0.0,Culture=neutral, PublicKeyToken=29b5ad26c9de9b95'.

You discover that the error occurs when the Windows-based application attempts to call functionality in a serviced component that was registered by using the following command.

regsvcs.exe myservices.dll

You need to ensure that the application can call the functionality in the serviced component without throwing the exception.

What should you do?

- A. Copy the serviced component assembly into the following folder.C:\WINDOWS\system32\Com
- B. Run the following tool from the command line.gacutil.exe /i myservices.dll
- C. Run the following tool from the command line.regasm.exe myservices.dll
- D. Copy the serviced component assembly into the following folder.C:\Program Files\ComPlus Applications

Answer: B

Question: 63

An application logs information about messages that pass through a message queue, including message contents. The application must run once for each message. You need to ensure that the application is executed for every message. Your solution must not prevent other processes from receiving the messages on the same queue.

What should you do?

- A. Create a Windows service application.Use the Peek method to retrieve message contents as messages arrive in the queue. Pass the message contents to the logging application.
- B. Create a Message Queuing trigger that executes the logging application.Define the trigger rule to pass the message contents as a string parameter to the logging application.
- C. Create a Message Queuing trigger that executes the logging application.Define the trigger rule to pass the message ID as a parameter to the logging application.Use the ReceiveById method on the MessageQueue object to retrieve the message content within the logging application.
- D. Create a Windows service application.Use the Peek method to find out when a message arrives in the message queue.Use the ReceiveById method to retrieve the message contents.Pass the message contents to the logging application.

Answer: B

Question: 64

You create a Web service that exposes a Web method named CalculateStatistics. The response returned by the CalculateStatistics method for each set of input parameters changes every 60 seconds. You need to ensure that all requests to the CalculateStatistics method that have the same set of input parameters, and that occur within a 60-second time period, calculate the statistics only once.

Which code segment should you use?

- A. `public:[WebMethod()]String ^CalculateStatistics (array<int> ^values) {
HttpContext::Current->Response->Cache->SetExpires(
DateTime::Now.AddSeconds(60));
...}`
- B. `public:[WebMethod()]String ^CalculateStatistics (array<int> ^values) {
HttpContext::Current->Response->Cache->SetCacheability(
HttpCacheability::Public, "max-age=60");
...}`

- C. public:[WebMethod(CacheDuration=60)]String ^CalculateStatistics(array<int> ^values) { ... }
D. public:[WebMethod(BufferResponse=60)]String ^CalculateStatistics(array<int> ^values) { ... }

Answer: C

Question: 65

A .NET Framework remoting application must host two linked-list collections, including one collection of integers and one collection of strings. Both collections must be instances of a single collection type. The application must be configured so that there is only one instance of each collection at run time. You need to implement a linked-list collection type that meets these requirements.

What should you do?

- A. Create a generic type named LinkedList that inherits from the ServicedComponent class, implement linked-list behavior in the code, and then configure two instances of the generic in SingleCall mode in a remoting server.
B. Create a generic type named LinkedList that inherits from MarshalByRefObject class, implement linked-list behavior in the code, and then configure two instances of the generic in Singleton mode in a remoting server host.
C. Create two instance variables of type System.Collections.Generic.LinkedList. Host the two instance variables in a Web method for a Web service.
D. Create a class named LinkedList, implement linked-list behavior in the code, and host two instances of the class in a Windows service.

Answer: B

Question: 66

An application has components named ComponentA, ComponentB, and ComponentC. ComponentA and ComponentB update tables in a database named DB1. ComponentC updates tables in a database named DB2. At run time, ComponentA is executed with either ComponentB or ComponentC in a single transaction. You need to compose the transaction to minimize the use of the system resources.

What should you do?

A. Write the following code for the transaction.
<AutoComplete> _Sub ExecuteTransactions() ...
End Sub

B. Write the following code for the transaction.
Sub ExecuteTransactions()
Try
ContextUtil.SetComplete()
Catch
ContextUtil.SetAbort()
End TryEnd Sub

C. Write the following code for the transaction.
Sub ExecuteTransactions() Dim connection As SqlConnection = New SqlConnection(...) Dim

```

trans as
SqlTransaction = connection.BeginTransaction();
Try
trans.Commit()
Catch
trans.Rollback()
End TryEnd Sub

```

D. Write the following code for the transaction.

```

Sub ExecuteTransactions() Using txscope As TransactionScope = new TransactionScope()
txscope.Complete() End Using}

```

Answer: D

Question: 67

A Web service exposes the following Web method.<WebMethod(CacheDuration:=60)> _Public Function GetImage(ByVal imageId As String) As Byte() ...End FunctionThe Web method generates responses that are greater than 1 MB in size. You need to configure the Web method to minimize memory usage on the server.

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

- A.** Set the value of the CacheDuration property of the WebMethod attribute to 300.
- B.** Apply a SoapDocumentMethod attribute to the method declaration with the ParameterStyle property set to SoapParameterStyle.Bare.
- C.** Set the value of the CacheDuration property of the WebMethod attribute to 0.
- D.** Apply a SoapDocumentMethod attribute to the method declaration with the ParameterStyle property set to SoapParameterStyle.Wrapped.
- E.** Set the BufferResponse property of the WebMethod attribute to False.
- F.** Set the BufferResponse property of the WebMethod attribute to True.

Answer: C, E

Question: 68

You are writing an installation application for a Windows Forms application. The Windows Forms application requires a private message queue named MyQueue. You need to ensure that the message queue exists after installation.

What should you do?

- A.** Add an Installer class to the Windows Forms application project. Write the following code in the AfterInstall event for the Installer class.

```

System::Collections::Generic::Queue<Message^>
q = gcnew System::Collections::Generic::Queue<Message^>();
q.Enqueue(gcnew Message(path));

```
- B.** Add an Installer class to the Windows Forms application project. Write the following code in the AfterInstall event for the Installer class.

```

MessageQueue^ q = gcnew
MessageQueue(".\\Private$\\MyQueue");

```
- C.** Add an Installer class to the Windows Forms application project. Write the following code in

the AfterInstall event for the Installer class.
`MessageQueue^ q = MessageQueue::Create(".\\Private$\\MyQueue");`

D. Add an Installer class to the Windows Forms application project. Write the following code in the AfterInstall event for the Installer class.
`System::Collections::Queue^ q = gcnew System::Collections::Queue(); q->Enqueue(".\\Private$\\MyQueue");`

Answer: C

Question: 69

A Windows-based application sends messages to the TestMessageQueue queue. An acknowledgement message must be sent to the TestMessageQueueAdmin queue when: The original message is retrieved from TestMessageQueue. The message has not been retrieved from TestMessageQueue after a specified time period.

The following code is used to send a message to the TestMessageQueue queue. (Line numbers are included for reference only.)

```
01 Dim mq As New MessageQueue(".\\TestMessageQueue")
02 Dim mqAdmin As New MessageQueue(".\\TestMessageQueueAdmin")
03 Dim m As New Message(messageBody)
04 m.AcknowledgeType = AcknowledgeTypes.PositiveReceive
05 mq.Send(m)
```

You need to ensure that an acknowledgement message is sent to the TestMessageQueueAdmin queue as required.

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

- A.** Replace line 04 with the following code.
`m.AcknowledgeType = AcknowledgeTypes.PositiveReceive Or _ AcknowledgeTypes.NegativeReceive`
- B.** Add the following line of code between lines 04 and 05.
`m.ResponseQueue = mqAdmin`
- C.** Add the following line of code between lines 04 and 05.
`m.AdministrationQueue = mqAdmin`
- D.** Replace line 04 with the following code.
`m.AcknowledgeType = AcknowledgeTypes.PositiveReceive And _ AcknowledgeTypes.NegativeReceive`

Answer: A, C

Question: 70

You are debugging a .NET Framework remoting application in Microsoft Visual Studio 2005. Your solution contains three projects as follows: SimpleMathLib is a class library project.

SimpleMathLib contains the remoting classes that will compile to a common assembly. SimpleMathHost is a Windows service project.

SimpleMathHost is installed on your computer and it hosts SimpleMathLib. SimpleMathClient is a Windows Forms application project. SimpleMathClient is the remoting client application. When you run the SimpleMathClient application, you receive an error message. You set a breakpoint in the SimpleMathLib class library where you suspect the error. When you run SimpleMathClient in the debugger, the error occurs again, and the debugger does not stop on the breakpoint. You confirm that the breakpoint has been configured correctly. You need to ensure that you can hit

the breakpoint and step through the code.

What should you do?

- A. Attach to the w3wp.exe process.
- B. Copy the SimpleMathLib.pdb file from the SimpleMathLib project folder to the folder in which SimpleMathHost.exe is installed.
- C. Attach to the SimpleMathHost.exe process.
- D. Copy the SimpleMathLib.dll file to the global assembly cache and copy the SimpleMathLib.pdb file to the root folder on the system drive.

Answer: C

Question: 71

You are writing a Web service that will serve multiple client applications. Some client applications will send billing information as SOAP headers, but you do not know the format of these headers.

You need to handle these SOAP headers so that the billing information is saved for analysis.

What should you do? (Each correct answer presents part of the solution. Choose two.)

- A. Extend the WebService class and override the SoapVersion property to include the unknown headers.
- B. Add a variable that is an array of the SoapUnknownHeader header to the Web service class.
- C. Add the SoapHeaderAttribute attribute to the methods that are called by the client application with the WebMethodAttribute attribute applied.
- D. Extend the SoapUnknownHeader class and add the extended class as a SOAP header to the WebService class.

Answer: B, C

Question: 72

A class library named MathLib contains the following code.

```
public class MathClass : MarshalByRefObject {  
    public decimal DoHugeCalculation(int iterations)  
    {  
        decimal result;  
        //Some very lengthy calculations  
        ...  
        return result; }  
}
```

The MathLib class is hosted in a .NET Framework remoting server application. A Windows application project

running on a client computer contains the following class.

```
public class MathClient { public void ProcessHugeCalculation(int iterations)  
{  
    MathClass cm = new MathClass();  
    decimal decRes = cm.DoHugeCalculation(iterations);
```

```
//process the result
```

```
... }  
}
```

The MathClient class must call the MathClass class asynchronously by using remoting. A callback must be implemented to meet this requirement. You need to complete the implementation of the MathClient class.

What should you do?

A. Apply the Serializable attribute to the MathClient class.

B. Modify the MathClient class as follows:

```
public class MathClient { public delegate void DoHugeCalculationDelegate(decimal result);  
public event DoHugeCalculationDelegate DoHugeCalculationResult;  
public void DoHugeCalculationHandler(decimal result) { DoHugeCalculationResult(result);  
}  
public void ProcessHugeCalculation(int iterations) {  
//Hook up event handler here...  
... }  
}
```

C. Apply the OneWay attribute to all methods in the MathClass class.

D. Modify the MathClient class as follows:

```
public class MathClient { private delegate decimal DoHugeCalculationDelegate(int iterations);  
private void DoHugeCalculationCallBack(IAsyncResult res) {  
AsyncResult aRes = (AsyncResult)res;  
decimal decRes = ((DoHugeCalculationDelegate)aRes.  
AsyncDelegate).EndInvoke(res);  
//process the result  
... } public void ProcessHugeCalculation(int iterations) {  
MathClass cm = new MathClass();  
DoHugeCalculationDelegate del = new DoHugeCalculationDelegate(  
cm.DoHugeCalculation);  
del.BeginInvoke(iterations, new AsyncCallback(  
DoHugeCalculationCallBack), null); } }
```

Answer: D

Question: 73

An application fails when executing a specific operation. You discover that the failure occurs when an exception is raised by a Web service. The application uses the following code to call the Web service.

```
void Process() {  
ProcessService serviceProxy = new ProcessService(); serviceProxy.ProcessDataCompleted +=  
new ProcessDataCompletedEventHandler(ServiceCompleted);  
serviceProxy.ProcessDataAsync(data);  
}
```

You need to ensure that the application does not fail when the Web service raises the exception. Your solution

must maximize the performance of your code.

What should you do?

A. Register the following method with the proxy object to receive the notification of completion.

```
void ServiceCompleted(object sender, ProcessDataCompletedEventArgs e)
{
    if (e.Error != null)
        LogMessage(e.Error.Message);
    else
```

```
        ProcessResult(e.Result);
}
```

B. Register the following method with the proxy object to receive the notification of completion.

```
void ServiceCompleted(object sender, ProcessDataCompletedEventArgs e)
{
    if (e.Error is SoapException)
        LogMessage(e.Error.Message);
    else
        ProcessResult(e.Result);
}
```

C. Register the following method with the proxy object to receive the notification of completion.

```
void ServiceCompleted(object sender, ProcessDataCompletedEventArgs e)
{
    if (sender is SoapException)
        LogMessage(e.Error.Message);
    else
        ProcessResult(e.Result);
}
```

D. Register the following method with the proxy object to receive the notification of completion.

```
void ServiceCompleted(object sender, ProcessDataCompletedEventArgs e)
{
    try {
        ProcessResult(e.Result);
    } catch (Exception ex){
        Console.WriteLine(ex.Message); }
}
```

Answer: A

Question: 74

A Web service named Math uses Web Service Enhancements (WSE) 3.0 policy assertions that are defined in the policy configuration file to implement security. The Web service authenticates access to the Web methods using the UsernameOverTransportAssertion policy assertion. A client application must call a Web method on the Math Web service. When the client application is executed, it throws an InvalidOperationException exception that displays the following text.Unable to determine client token to use. Client token type requested

was 'Microsoft.Web.Services3.Security.Tokens.UsernameToken'.The following code is used to invoke the Web method. (Line numbers are included for reference only.)

```
01 Math^ ws = gcnew Math();
```

```
02 ws->SetPolicy("Secure");
```

```
03 int result = ws->Add(3, 4);
```

You need to ensure that the Web methods can be invoked without causing the client application to throw the InvalidOperationException exception.

What should you do?

A. Add the following code between lines 02 and 03.ws-

```
>SetServiceCredential<UsernameToken^>(gcnew
```

```
UsernameToken(userId, password));
```

B. Add the following code between lines 02 and 03.ws-

```
>SetClientCredential<UsernameToken^>(gcnew
```

```
UsernameToken(userId, password));
```

C. Add the following code between lines 02 and 03.ws->Credentials =

```
System::Net::CredentialCache::DefaultCredentials;
```

D. Add the following code between lines 02 and 03.ws->Credentials = gcnew

```
System::Net::NetworkCredential(userId, password);
```

Answer: B

Question: 75

An application calls a Web method asynchronously by using the following code. (Line numbers are included for reference only.)

```
01
```

```
void ProcessData() {
```

```
02
```

```
ProcessingService serviceProxy = new ProcessingService();
```

```
03
```

```
IAsyncResult asyncResult = null;
```

```
04
```

```
asyncResult = serviceProxy.BeginProcess(data, null, null);
```

```
05
```

```
while (!asyncResult.IsCompleted) {
```

```
06
```

```
Thread.Sleep(1000);
```

```
07
```

```
}
```

```
08
```

```
09
```

```
serviceProxy.EndProcess(asyncResult);
```

```
10 }
```

You need to ensure that the application can process and log any exceptions raised by the Web method.

What should you do?

- A. Replace line 09 with the following code.`try { serviceProxy.EndProcess(asyncResult);} catch (Exception ex) { LogException(ex);}`
- B. Replace line 08 with the following code.`if (asyncResult.AsyncState is Exception) LogException (asyncResult.AsyncState);`
- C. Replace lines 05, 06, and 07 with the following code.`try { while (!asyncResult.IsCompleted) { Thread.Sleep(1000); }} catch (Exception ex) { LogException (ex);}`
- D. Replace line 04 with the following code.`try { asyncResult = serviceProxy.BeginProcess(data, null, null);} catch (Exception ex) { LogException (ex);}`

Answer: A

Question: 76

You are writing an application that reads messages from a message queue. The name of the message queue is stored in a member variable named `queueName`. When a message is read, the application processes the message. The code for the application is as follows:

```
class MyApp {
    MessageQueue queue;
    public MyApp()
    {
        queue = new MessageQueue(queueName, QueueAccessMode.Receive);
        queue.ReceiveCompleted += new ReceiveCompletedEventHandler(this.ReceivedMessage);
        queue.BeginReceive();
    }
    bool KeepListening() { }
    void ProcessMessage(Message m) { }
}
```

You need to ensure that the application continues to read messages when the `KeepListening` method returns `True`, and stops when the `KeepListening` method returns `False`.

What should you do?

- A. Use the following implementation of the `ReceivedMessage` method.

```
private void ReceivedMessage(object sender, ReceiveCompletedEventArgs e) { queue = new MessageQueue(queueName, QueueAccessMode.Receive);
    ProcessMessage(queue.EndReceive(e.AsyncResult));
    if (KeepListening() == false) {
        queue.ReceiveCompleted -= new ReceiveCompletedEventHandle(this. ReceivedMessage);
    } }
```
- B. Use the following implementation of the `ReceivedMessage` method.

```
private void ReceivedMessage(object sender, ReceiveCompletedEventArgs e) { queue = new MessageQueue(queueName, QueueAccessMode.Receive);
    ProcessMessage(queue.EndReceive(e.AsyncResult));
    if (KeepListening() == true) {
        queue.BeginReceive();
    } }
```
- C. Use the following implementation of the `ReceivedMessage` method.

```
private void ReceivedMessage(object sender, ReceiveCompletedEventArgs e) {
```

```

ProcessMessage(queue.EndReceive(e.AsyncResult));
if (KeepListening() == false) {
queue.ReceiveCompleted -= new ReceiveCompletedEventHandler(this. ReceivedMessage);
} }

```

D. Use the following implementation of the ReceivedMessage method.

```

private void ReceivedMessage(object sender, ReceiveCompletedEventArgs e) {
ProcessMessage(queue.EndReceive(e.AsyncResult));
if (KeepListening() == true) {
queue.BeginReceive();
} }

```

Answer: D

Question: 77

You are writing an application that handles the batch processing of user accounts. The application assigns network identities for users by calling the following Web service method.

<WebMethod> _Public Function GetNetworkID(ByVal name As String) As String ...End Function

The application calls the Web service using the following code. (Line numbers are included for reference only.)

```

01
Private Sub ProcessPeople(ByVal people As List(Of Person))
02
Dim serviceProxy As PersonService = New PersonService()
03
AddHandler serviceProxy.GetNetworkIDCompleted, _
04
AddressOf GetNeworkIDCompleted
05
Dim i As Integer
06
For i = 0 To people.Count - 1
07
08
Next
09
End Sub
10
11
Private Sub GetNeworkIDCompleted(ByVal sender As Object, _
12

ByVal e As GetNetworkIDCompletedEventArgs)
13
Dim p As Person = Nothing
14

```

15

p.NetworkID = e.Result

16

ProcessPerson(p)

17

End Sub

You need to ensure that the application can use the data supplied by the Web service to update each Person instance.

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

A. Replace line 14 with the following code segment.
`p = e.UserState`

B. Replace line 14 with the following code segment.
`p = sender`

C. Replace line 07 with the following code

`segment.serviceProxy.GetNetworkIDAsync(people(i).FirstName, people(i))`

D. Replace line 07 with the following code

`segment.serviceProxy.GetNetworkIDAsync(people(i).FirstName, Nothing)`

Answer: A, C

Question: 78

You have a Web service that is deployed on an unsecured network. You need to implement encryption on the Web service. The implementation must be configurable at run time.

What should you do?

A. Apply Web Services Enhancements (WSE) 3.0 security to the Web service that is configured to use an X.509 certificate with the Sign-Only protection level.

B. Write custom code in each Web method of the Web service that encrypts the data by using the DESCryptoServiceProvider class.

C. Write a custom SOAP extension attribute class to encrypt and decrypt the SOAP message. Apply the attribute to the Web service class.

D. Apply Web Services Enhancements (WSE) 3.0 security to the Web service that is configured to use an X.509 certificate with the Sign and Encrypt protection level.

Answer : D

Question: 79

An application fails when executing a specific operation. You discover that the failure occurs when an exception is raised by a Web service. The application uses the following code to call the Web service.

```
void Process () { Process Service Proxy = new ProcessService();
```

```
serviceProxy.ProcessDataCompleted += new
```

```
ProcessDataCompletedEventHandler(ServiceCompleted);
```

```
serviceProxy.ProcessDataAsync(data);}
```

You need to ensure that the application does not fail when the Web service raises the exception. Your solution must maximize the Performance of your code. What should you do?

- A. Register the following method with the proxy object to receive the notification of completion.

```
void ServiceCompleted(object sender, ProcessDataCompletedEventArgs e){ if (sender is SoapException) LogMessage(e.Error.Message); else ProcessResult(e.Result); }
```
- B. Register the following method with the proxy object to receive the notification of completion.

```
void ServiceCompleted(object sender, ProcessDataCompletedEventArgs e){ if (e.Error is SoapException) LogMessage(e.Error.Message); else ProcessResult(e.Result); }
```
- C. Register the following method with the proxy object to receive the notification of completion.

```
void ServiceCompleted(object sender, ProcessDataCompletedEventArgs e){ try { ProcessResult(e.Result); } catch (Exception ex){ Console.WriteLine(ex.Message); } }
```
- D. Register the following method with the proxy object to receive the notification of completion.

```
void ServiceCompleted(object sender, ProcessDataCompletedEventArgs e) { if (e.Error != null) LogMessage(e.Error.Message); else ProcessResult(e.Result); }
```

Answer: D

Question: 80

A file named Util.asmx contains the following code segment. (Line numbers are included for reference only.)
01 <%@ WebService Language="C#" class="Exam.Util" %>
02 namespace Exam
03 public class Util {
04 public string GetData() {
05 return "data";
**06 }
07 }
08 }**
You need to expose the GetData method through a Web service. What should you do?

- A. Insert the following line of code between lines 02 and 03.
[System.Web.Services.WebService()]
- B. Replace line 03 with the following line of code.
public class Util : System.Web.Services.WebService
- C. Insert the following line of code between lines 03 and 04.
[System.Web.Services.WebMethod()]
- D. Replace line 01 with the following line of code.
<%@ WebService Language="C#" class="System.Web.Services.WebService" %>

Answer: C

Question: 81

A Web service exposes a method named GetChart that returns an image. The data used to generate the image changes in one-minute intervals. You need to minimize the average time per request for CPU processing. What should you do?

- A. Set the BufferResponse property on the WebMethod attribute of the GetChart method to True.
- B. Set the BufferResponse property on the WebMethod attribute of the GetChart method to False.
- C. Set the CacheDuration property on the WebMethod attribute of the GetChart method to 60.
- D. Set the CacheDuration property on the WebMethod attribute of the GetChart method to 1.

Answer: C

Question: 82

You create a Web service that exposes a Web method named CalculateStatistics. The response returned by the CalculateStatistics method for each set of input parameters changes every 60 seconds. You need to ensure that all requests to the CalculateStatistics method that have the same set of input parameters, and that occur within a 60-second time period, calculate the statistics only once. Which code segment should you use?

- A. `[WebMethod()]public string CalculateStatistics(int[] values) { HttpContext.Current.Response.Cache.SetCacheability(HttpCacheability.Public, "maxage=60"); ... }`
- B. `[WebMethod(CacheDuration=60)]public string CalculateStatistics(int[] values) { ... }`
- C. `[WebMethod()]public string CalculateStatistics(int[] values) { HttpContext.Current.Response.Cache.SetExpires(DateTime.Now.AddSeconds(60)); ... }`
- D. `[WebMethod(BufferResponse=60)]public string CalculateStatistics(int[] values) { ... }`

Answer: B

Question: 83

A Windows service application must host a .NET Framework remoting class named SimpleMathClass. SimpleMathclass must have the following method, which can be called remotely. public double Add(double x, double y) { return x + y;} You need to create the SimpleMathClass class. What should you do?

- A. Write the following class definition. `public class SimpleMathClass: MarshalByRefObject { public double Add(double x, double y) { return x + y; } }`
- B. Write the following class definition. `[AutomationProxy(true)]public class SimpleMathclass ( public double Add(double x, double y) { return x + y; } }`
- C. Write the following class definition. `[Serializable]public class SimpleMathClass { public double Add(double x, double y) { return x + y; } }`
- D. Write the following class definition. `public class SimpleMathClass: ServicedComponent { public double Add(double x, double y) { return x + y; } }`

Answer: A

Question: 84

A client application calls a Web service named Math. Both the client application and Math are configured with a Web Services Enhancements (WSE) 3.0 policy named Secure to validate anonymous access for certificate security. A Web reference to the Math Web service is added to the client application's project using Microsoft Visual Studio 2005. When the client application is built and executed, a SoapException exception is thrown with the following message. The security requirements are not met because the security header is not included in the incoming message. You need to ensure that the application runs without throwing the SoapException exception. What should you do?

- A. Add the following attribute to the Math proxy class definition `.[Microsoft.Web.Services3.Policy("Secure")]`

- B. Set the Name property for the WebServiceBindingAttribute attribute on the Math proxy class definition to MathWseSoap.
- C. Add the following attribute to the Math proxy class definition.[Microsoft.Web.Services3.Policy("anonymousForCertificateSecurity")]
- D. Modify the Math proxy class so that it derives from the following protocol.System.Web.Services.Protocols.SoapHttpClientProtocol

Answer: A

Question: 85

A .NET Framework application receives messages from a private message queue named MyQueue. The private queue exists on a computer named APPSERVER1. A user in a domain named CONTOSO has the username dhall. This user reports that when he attempts to run the application, he receives a MessageQueueException exception with the error message text "Access to Message Queuing system is denied." You need to ensure that CONTOSO\dhall can receive messages from MyQueue using the .NET Framework application. Your solution must not give dhall unnecessary privileges. What should you do?

- A. Write the following code segment.

```
MessageQueue q = new
MessageQueue("APPSERVER1\Private$\MyQueue");q.SetPermissions(@"contoso\dhall" ,
MessageQueueAccessRights.FullControl);
```
- B. Write the following code segment.

```
MessageQueuePermissionEntry mqpe = new
MessageQueuePermissionEntry( MessageQueuePermissionAccess.Receive ,
@"APPSERVER1\Private$\MyQueue" ,@"contoso\dhall" , null );MessageQueuePermission p
= new MessageQueuePermission(new MessageQueuePermissionEntry[] { mqpe
});p.Demand();
```
- C. Write the following code segment.

```
MessageQueuePermissionEntry mqpe = new
MessageQueuePermissionEntry( MessageQueuePermissionAccess.Administer ,
"APPSERVER1\Private$\MyQueue" ,@"contoso\dhall" , null );MessageQueuePermission p =
new MessageQueuePermission(new MessageQueuePermissionEntry[] { mqpe
});p.Demand();
```
- D. Write the following code segment.

```
MessageQueue q = new
MessageQueue("APPSERVER1\Private$\MyQueue");q.SetPermissions("contoso\dhall"
,MessageQueueAccessRights.GenericRead);
```

Answer: D

Question: 86

**You are writing an application that creates network accounts for users. The application monitors a private queue and it creates network accounts when messages arrive in that queue. A message contains a User object. The message is sent to the queue using the following code.

```
MessageQueue q = new MessageQueue(queueName);Message m = new Message(new
User("anna", "bedecs"));q.Send(m, "create account");
```

You need to ensure that the application can process the User object. What should you do?**

- A. Write the following code segment to get the User object.

```
q.ReceiveByld("User");m =
```

q.ReceiveUser u = m.Body as User;

B. Write the following code segment to get the User object.q.ReceiveSyld("User");m =

q.Receive().BodyType = 5;User u = m.Body as User;

C. Write the following code segment to get the User object.q.Formatter = (new XmlMessageFormatter(new Type[] { typeof(User) }));m = q.ReceiveUser u = m.Body as User;

D. Write the following code segment to get the User object.q.Formatter = new XmlMessageFormatter();m = q.Receive();User u = m.Body as User;

Answer: C

Question: 87

A Windows-based application sends messages to the TestMessageQueue queue. An acknowledgement message must be sent to the TestMessageQueueAdmin queue when: The original message is retrieved from TestMessageQueue. The message has not been retrieved from TestMessageQueue after a specified time period. The following code is used to send a message to the TestMessageQueue queue. (Line numbers are included for reference only.)
01 MessageQueue mq = new MessageQueue(".", "\\TestMessageQueue");
02 MessageQueue mqAdmin = new MessageQueue(".", "\\TestMessageQueueAdmin");
03 Message m = new Message(messageBody);
04 m.AcknowledgeType = AcknowledgeTypes.PositiveReceive;
05 mq.Send(m);
You need to ensure that an acknowledgement message is sent to the TestMessageQueueAdmin queue as required. Which two actions should you Perform? (Each correct answer presents part of the solution. Choose two.)

A. Add the following line of code between lines 04 and 05.m.AdministrationQueue = mqAdmin;

B. Add the following line of code between lines 04 and 05.m.ResponseQueue = mqAdmin

C. Replace line 04 with the following code.m.AcknowledgeType = AcknowledgeTypes.PositiveReceive & AcknowledgeTypes.NegativeReceive;

D. Replace line 04 with the following code.m.AcknowledgeType = AcknowledgeTypes.PositiveReceive I AcknowledgeTypes.NegativeReceive;

Answer: A, D

Question: 88

You are writing an application that provides a graphical administrative interlace to a message queue that displays information about the messages. The GUI is updated in the AdminFunction function. You need to ensure that the GUI is updated without unnecessary delay, and that processed messages contain the most recent message contents. What should you do?

A. Read the messages from the message queue and update the GUI by using the following code segment.
MessageQueue queue = new MessageQueue(queueName, QueueAccessMode.Peek);
Cursor cursor = queue.CreateCursor();
Message m = queue.Peek();
while (m != null) { AdminFunction(m); m = queue .Peek(); }

B. Read the messages from the message queue and update the GUI by using the following code segment.
MessageQueue queue = new MessageQueue(queueName, QueueAccessMode.Peek);
Message[] messages = queue.GetAllMessagesfor (int i = 0; i < messages.Length; i++) { AdminFunction(messages[i]); }

C. Read the messages from the message queue and update the GUI by using the following code segment.

```
MessageQueue queue = new MessageQueue(queueName,
QueueAccessMode.Peek);
Cursor queueCursor = queue.CreateCursor();
Message m = queue.Peek(timeout, queueCursor, PeekAction.Current);
while (m != null) {
AdminFunction(m);
m = queue.Peek(timeout, queueCursor, PeekAction.Next);
}
```

D. Read the messages from the message queue and update the GUI by using the following code segment.

```
MessageQueue queue = new MessageQueue(queueName,
QueueAccessMode.Peek);
MessageEnumerator messages = queue
.GetMessageEnumerator2();
while (messages.MoveNext()) {
AdminFunction(messages.Current);
}
```

Answer: D

Question: 89

You write a Web service that is called by two client applications named Client1 and Client2. The Web service must return a SOAP header that contains the date and time that the method executed. You discover that the date and time information for Client1 must be stored in a different XML format from the format used for Client2. The client application that is making the request is specified as a property of the SOAP header. You need to ensure that date and time information is stored in the correct format for each client application. Your solution must not change the way that ASP.NET handles SOAP requests. What should you do?

- A. Add the SoapElementAttribute attribute with the correct element name for the client application to the field that contains the date and time information.
- B. Change the EncodedRelay property to the name of the method that will create the correct XML formatting for each client application.
- C. Implement the IXmlSerializable interface in the SOAP header class to return the correct XML format for each client application in the WriteXml method.
- D. Create two XmlSerializer classes and use the WriteHeaders method of the SoapHeader Handling class to format the XML for each client application.

Answer: C

Question: 90

A Console Application calls a Web service named SessionStateService five times, sequentially. The IncrementSessionCounter Web service method increments and returns an integer value that is held in a cookie. (Line numbers are included for reference only.)

```
01 void
IncrementSession5Times() {
02 SessionStateService service = null;
03 ...
04 for (int i = 0; i < 5; i++)
05 ...
06 Console.WriteLine("Loop Pass {0} - result = {1}",
07 i,
08 service.IncrementSessionCounter());
09 }
10 }
```

You need to ensure that when the IncrementSession5Times method is run, the following output is displayed.

```
Loop Pass 0 - result = 1
Loop Pass 1 - result = 2
Loop Pass 2 - result = 3
Loop Pass 3 - result = 4
Loop Pass 4 - result = 5
```

What should you do?

- A. Replace line 03 with the following code. CookieContainer cookies = new CookieContainer(); Replace line 05 with the following code. SessionStateService service =

new SessionStateService();service.CookieContainer = cookies;
 B. Replace line 03 with the following code.SessionStateService service = new SessionStateService();
 C. Replace line 05 with the following code .SessionStateService service = new SessionStateService();CookieContainer cookies = new CookieContainer();service.CookieContainer = cookies;
 D. Replace line 03 with the following codeCookieContainer cookies = new CookieContainer();Replace line 05 with the following code Session StateService service = new SessionStateService();cookies.GetCookies(new Uri(service.Url));

Answer: A

Question: 91

A SOAP message has the following body.<soap:Body> <tns:Greeting> <Person href="#id1" /> </tns:Greeting> <tns:User id="id1" xsi:type="tns:User"> <GivenName xsi:type="xsd:string">givenname</GivenName> <SurName xsi:type="xsd:string">surname</SurName> </tns:User></soap:Sody>You need to configure the Greeting method to accept the SOAP message. Which code segment should you use?

- A. [WebMethod][SoapDocumentMethod(Use=SoapBindingUse.Literal)]public string Greeting([XmlElement("Person")] User user){ ...}
- B. [WebMethod][SoapDocumentMethod(Use=SoapBindingUse.Encoded)]public string Greeting([XmlElement("Person")] User user){ ...}
- C. [WebMethod][SoapDocumentMethod(Use=SoapBindingUse.Literal)]public string Greeting([SoapElement('Person')] User user){ ...}
- D. [WebMethod][SoapDocumentMethod(Use=SoapBindingUse.Encoded)]public string Greeting([SoapElement("Person")] User user){ ...}

Answer: D

Question: 92

You use Microsoft Visual Studio 2005 to create a custom Web service discovery system that contains Disco files for your Web services. You need to have the Disco file for each or your Web services for auditing purposes. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Append the Disco parameter to the Web service's .asmx URL's querqstring and save the returned data.
- B. Open the Web service's Web services description language (WSDL) file and copy the method information into the Disco file for that Web service.
- C. Add a reference to the Web service in Visual Studio 2005 and use the generated Disco file.
- D. Append the Web services description language (WSDL) parameter to the Web service's .asmx URL's querystring and save the returned data.

Answer: AC

Question: 93

A Web service exposes a method named GetChart that returns an image. The data used to generate the image changes in one-minute intervals. You need to minimize the average time per request for CPU processing. What should you do?

- A. Set the BufferResponse property on the WebMethod attribute of the GetChart method to True.
- B. Set the BufferResponse property on the WebMethod attribute of the GetChart method to False.
- C. Set the CacheDuration property on the WebMethod attribute of the GetChart method to 60.
- D. Set the CacheDuration property on the WebMethod attribute of the GetChart method to 1.

Answer: C

Question: 94

You create a Web service that exposes a Web method named CalculateStatistics. The response returned by the CalculateStatistics method for each set of input parameters changes every 60 seconds. You need to ensure that all requests to the CalculateStatistics method that have the same set of input parameters, and that occur within a 60-second time period, calculate the statistics only once. Which code segment should you use?

- A. `<WebMethod()> _Public Function CalculateStatistics(ByVal values As Integer()) As String HttpContext.Current.Response.Cache.SetCacheability( _ HttpCacheability.Public, "maxage=60") ...End Function`
- B. `<WebMethod(CacheDuration:=60)> _Public Function CalculateStatistics(ByVal values As Integer()) As String ...End Function`
- C. `<WebMethod()> _Public Function CalculateStatistics(ByVal values As Integer()) As _String HttpContext.Current.Response.Cache.SetExpires( _ DateTime.Now.AddSeconds(60)) ...End Function`
- D. `<WebMethod(BufferResponse:=60)> _Public Function CalculateStatistics(ByVal values As Integer) As _String ...End Function`

Answer: B

Question: 95

A client application calls a Web service named Math. Both the client application and Math are configured with a Web Services Enhancements (WSE) 3.0 policy named Secure to validate anonymous access for certificate security. A Web reference to the Math Web service is added to the client application's project using Microsoft Visual Studio 2005. When the client application is built and executed, a SoapException exception is thrown with the following message .The security requirements are not met because the security headeris not included in the incoming message.You need to ensure that the application runs without throwing the SoapException exception. What should you do?

- A. Add the following attribute to the Math proxy class definition.
<Microsoft.Web.Services3.Policy("Secure")>
- B. Set the Name property for the WebServiceBindingAttribute attribute on the Math proxy class definition to MathWseSoap.
- C. Add the following attribute to the Math proxy class definition.
<Microsoft.Web.Services3.Policy("anonymousForCertificateSecurity")>
- D. Modify the Math proxy class so that it derives from the following class.
System.Web.Services.Protocols.SoapHttpClientProtocol

Answer: A

Question: 96

A .NET Framework application receives messages from a private message queue named MyQueue. The private queue exists on a computer named APPSERVER1. A user in a domain named CONTOSO has the username dhall. This user reports that when he attempts to run the application, he receives a MessageQueueException exception with the error message text "Access to Message Queuing system is denied." You need to ensure that CONTOSD\dhall can receive messages from MyQueue using the .NET Framework application. Your solution must not give dhall unnecessary privileges. What should you do?

- A. Write the following code segment.
Dim q As MessageQueue = New _
MessageQueue("APPSERVER1\Private\$\MyQueue")q.SetPermissions("contoso\dhall" _
MessageQueueAccessRights.FullControl)
- B. Write the following code segment.
Dim mqpe As MessageQueuePermissionEntry = New
MessageQueuePermissionEntry(_ MessageQueuePermissionAccess.Receive _ ,
"APPSERVER1\Private\$\MyQueue" _ , "contoso\dhall" _ , Nothing_) Dim p As
MessageQueuePermission = New MessageQueuePermission(New _
MessageQueuePermissionEntry() {mqpe})p.Demand()
- C. Write the following code segment.
Dim mqpe As MessageQueuePermissionEntry = New
MessageQueuePermissionEntry(_ MessageQueuePermissionAccess.Administer _ ,
"APPSERVER1\Private\$\MyQueue" _ "contoso\dhall" _ Nothing_) Dim pAs
MessageQueuePermission = New MessageQueuePermission(New _
MessageQueuePermissionEntry() {mqpe})p.Demand()
- D. Write the following code segment.
Dim q As MessageQueue = New
MessageQueue("APPSERVER1\Private\$\MyQueue")q.SetPermissions("contoso\dhall" _ ,
MessageQueueAccessRights.GenericRead _)

Answer: D

Question: 97

**You are writing an application that creates network accounts for users. The application monitors a private queue and it creates network accounts when messages arrive in that queue. A message contains a User object. The message is sent to the queue using the following code.
Dim q As New MessageQueue(queueName) Dim m As New Message(New User("anna", "bedecs")) q.Send(m, "create account") You need to ensure that the application can process the User object. What**

should you do?

- A. Write the following code segment to get the User object.
`q.ReceiveSyld("User")m = q.ReceiveDim u As User = CType(m.Body, User)`
- B. Write the following code segment to get the User object.
`q.ReceiveSyld("User")m = q.ReceiveDim u As User = CType(m.Body, User)`
- C. Write the following code segment to get the User object.
`q.Formatter = New XmlMessageFormatter(New Type() {GetType(User)})m = q.Receive()Dim u As User = CType(m.Body, User)Console.WriteLine(u.ToString())`
- D. Write the following code segment to get the User object.
`q.Formatter = New XmlMessageFormatter()m = q.ReceiveDim u As User = CType(m.Body, User)Console.WriteLine(u.ToString())`

Answer: C

Question: 98

You create a .NET Framework remoting application that provides stock information to customers. The server component raises an event on the client computer when certain conditions are met. You need to ensure the server raises exactly one event for each client application that is registered for the event. What should you do?

- A. Configure the server class as a Singleton Server Activated Object (SAO) and check for duplicate client delegate methods before raising the event.
- B. Configure the server class as a Client Activated Object (CAO) and override the CreateObjRef method to check for duplicate client delegate methods before raising the event.
- C. Configure the server class as a SingleCall Server Activated Object (SAO) and check for duplicate client delegate methods before raising the event.
- D. Configure the server class as a Client Activated Object (CAO) and check for duplicate client delegate methods before raising the event.

Answer: A

Question: 99

A class library named MathLib contains the following code.
`Public Class MathClass Inherits MarshalByRefObject Public Function DoHugeCalculation(ByVal iterations As Integer) _ As Decimal Dim result As Decimal 'Some very lengthy calculations Return result End Function End Class`
The MathLib class is hosted in a .NET Framework remoting server application. A Windows application project running on a client computer contains the following class.
`Public Class MathClient Public Sub ProcessHugeCalculation(ByVal iterations As Integer) Dim cm As New MathClass() Dim decRes As Decimal = cm.DoHugeCalculation(iterations) 'process the result ... End Sub End Class`
The MathClient class must call the MathClass class asynchronously by using remoting. A callback must be implemented to meet this requirement. You need to complete the implementation of the MathClient class. What should you do?

- A. Modify the MathClient class as follows:
`Public Class MathClient Public Delegate Sub DoHugeCalculationDelegate(ByVal result As _ Decimal) Public`

```

Event DoHugeCalculationResult As DoHugeCalculationDelegate Public Sub
DoHugeCalculationHandler(ByVal result As Decimal) RaiseEvent
DoHugeCalculationResult(result) End Sub Public Sub ProcessHugeCalculation(ByVal
iterations As Integer) 'Hook up event handler here ' ... ' End Sub End Class
B. Apply the Serializable attribute to the MathClient class.
C. Modify the MathClient class as follows: Public Class MathClient Public Delegate Function _
DoHugeCalculationDelegate(ByVal iterations As Integer) As Decimal Private Sub
DoHugeCalculationCallback(ByVal res As IAsyncResult) Dim aRes As IAsyncResult =
CType(res, IAsyncResult) Dim decRes = _ CType(aRes.AsyncDelegate, _
DoHugeCalculationDelegate).EndInvoke(res) 'Process the result ' ... End Sub Public Sub
ProcessHugeCalculation(ByVal iterations As Integer) Dim cm As New MathClass() Dim del
As New DoHugeCalculationDelegate( _ AddressOf cm.DoHugeCalculation)
del.BeginInvoke(iterations, New AsyncCallback( _ AddressOf DoHugeCalculationCallback),
Nothing) End Sub End Class
D. Apply the OneWay attribute to all methods in the MathClass class.

```

Answer: C

Question: 100

You are writing a .NET Framework remoting client application that must call two remoting servers.

The first server hosts an assembly that contains the following delegate and class definition.
Public Delegate Function IsValidDelegate(ByVal number As String, ByVal code As Int16) As Boolean
Public Class CreditCardValidator Inherits MarshalByRefObject Public Function IsValid(ByVal number As String, ByVal code _ As Int16) As Boolean ... End Function End Class
The second server hosts an assembly that contains the following delegate and class definition.
Public Delegate Function GetCustomerDiscountDelegate(_ ByVal customerId As Integer) As Single
Public Class PreferredCustomer Public Function GetCustomerDiscount(ByVal customerId _ As Integer) As Single ... End Function End Class
You configure the remoting client application to call both server classes remotely. The amount of time it takes to return these calls varies, and long response times occur during heavy load times. The processing requires the result from both calls to be returned. You need to ensure that calls to both remoting servers can run at the same time. What should you do?

```

A. Write the following code segment in the client application. Dim pc As New
PreferredCustomer() Dim val As New CreditCardValidator() Dim discount As Double =
pc.GetCustomerDiscount(1001) Dim isValid As Boolean = val.IsValid("4111-2222-3333-4444"
, 123)
B. Write the following code segment in the client application. Dim pc As New
PreferredCustomer() Dim del1 As New GetCustomerDiscountDelegate(Addressof
_pc.GetCustomerDiscount) Dim val As New CreditCardValidator() Dim del2 As New
IsValidDelegate(Addressof val.IsValid) Dim discount As Double = del1.Invoke(1001) Dim
isValid As Boolean = del2.Invoke("41 11-2222-3333-4444", 123)
C. Write the following code segment in the client application. Dim pc As New
PreferredCustomer() Dim del1 As New
GetCustomerDiscountDelegate(Addressof _pc.GetCustomerDiscount) Dim res1 As

```

```

IAsyncResult = del1 .BeginInvoke(1001, Nothing, Nothing)Dim val
As New CreditCardValidator()Dim del2 As New IsValidDelegate(AddressOf val.IsValid)Dim
res2 As IAsyncResult =
del2.BeginInvoke("4111-2222-3333-4444", _ 123, Nothing, Nothing)Dim waitHandles() As
WaitHandle = {res1 .AsyncWaitHandle,
res2.AsyncWaitHandle}ManualResetEvent.WaitAll(waitHandles)Dim discount As Double =
del1 .EndInvoke(res1)Dim isValid As Boolean = del2 .EndInvoke(res2)
D. Write the following code segment in the client application.Dim pc As New
PreferredCustomer()Dim del1 As New GetCustomerDiscountDelegate(AddressOf_
pc.GetCustomerDiscount)Dim res1 As IAsyncResult = del1 .BeginInvoke(1001,Nothing,
Nothing)Dim discount As Double = del1 .EndInvoke(res1)Dim val As New
CreditCardValidator()Dim del2 As New IsValidDelegate(AddressOf val.IsValid)Dim res2 As
IAsyncResult = del2.BeginInvoke("41 11-2222-3333-4444", _ 123, Nothing, Nothing)Dim
isValid As Boolean = del2.EndInvoke(res1)

```

Answer: C

Question: 101

to the Bin folder that is under a virtual directory named SimpleMathHost, which is on an IIS server named SERVER 1. The SimpleMathLib assembly contains the following code.
Public Class SimpleMathClass Inherits MarshalByRefObject
Public Function Add(ByVal x As Double, ByVal y As Double) _ As Double
Return x + y
End Function
End Class
The Web.config file under the SimpleMathHost virtual directory contains the proper configuration to host SimpleMath as a remoting object. You write a client Console Application and add a reference to the SimpleMathLib assembly. You need to ensure that the client Console Application calls the Add method on SERVER1 and returns the correct sum of the parameters to the Console Application. What should you do?

```

A. Write the following code in the client application.Dim chan As New
TcpChannelChannel()Services.RegisterChannel(chan, False)Dim sm As New
SimpleMathClass()Console.WriteLine(sm.Add(2, 2).ToString())
B. Write the following code in the client application.Dim sm As SimpleMathClass = _
CType(Activator.GetObject(GetType(SimpleMathClass), _ "http://server1:80
/SimpleMathHost/SimpleMath.rem"), SimpleMathClass)Console.WriteLine(sm .Add(2,
2).ToString())
C. Write the following code in the client application.Dim sm As SimpleMathClass = _
CType(Activator.GetObject(GetType(SimpleMathClass), _ "tcp://server1:80
/SimpleMathHost/SimpleMath rem"), SimpleMathClass)Console.WriteLine(sm.Add(2,
2).ToString())
D. Write the following code in the client application.Dim sm As SimpleMathClass = _
CType(Activator.CreateInstance(GetType(SimpleMathClass), _ New String() {"http:
//server1:80 /SimpleMathHost/SimpleMath rem", _ "SimpleMath .SimpleMathClass,
SimpleMathLib"}), _ SimpleMathClass)Console.WriteLine(sm.Add(2, 2).ToString)

```

Answer: B

Question: 102

You are creating a Web service. You need to add an operation that can be called without returning a message to the caller. Which code should you use?

- A. `<WebMethod()> _<SoapDocumentMethod(OneWay:=True)> _Public Function ProcessName(ByVal Name As String) As Boolean ...Return FalseEnd Function`
- B. `<WebMethod()> _<OneWay> _Public Sub ProcessName() ... End Sub`
- C. `<WebMethod()> _<SoapDocumentMethod(OneWay:=True)> Public Sub ProcessName() ...End Sub`
- D. `<WebMethod()> _<SoapDocumentMethod(Action:="OneWay")> _Public Sub ProcessName() ...End Sub`

Answer: C

Question: 103

A Console Application calls a Web service named SessionStateService five times, sequentially. The IncrementSessionCounter Web service method increments and returns an integer value that is held in a cookie. (Line numbers are included for reference only)

```
01 Public Sub
IncrementSession5Times()02 Dim service As New SessionStateService()03 ...04 Dim i As
Integer05 For i = 0 To 406 ...07 Console.WriteLine("Loop Pass {0} - result = {1}", i,08
service.IncrementSessionCounter())09 Next i 10 End Sub
```

You need to ensure that when the IncrementSession5Times method is run, the following output is displayed.

```
Loop Pass 0 - result = 1
Loop Pass 1 - result = 2Loop Pass 2 - result = 3Loop Pass 3 - result = 4Loop Pass 4 - result = 5
```

What should you do?

- A. Replace line 03 with the following code.`Dim cookies As New CookieContainer();` Replace line 06 with the following code.`Dim service As New SessionStateservice()service.CookieContainer = cookies`
- B. Replace line 03 with the following code.`Dim service As New SessionStateService()`
- C. Replace line 06 with the following code.`Dim service As New SessionStateService()Dim cookies As New CookieContainerflservice.CookieContainer = cookies`
- D. Replace line 03 with the following code.`Dim cookies As New CookieContainer();` Replace line 06 with the following code.`Dim service As New SessionStateService()cookies.GetCookies(New Uri(service.Url))`

Answer: A

Question: 104

You write a Web service that is called by two client applications named Client1 and Client2. The Web service must return a SOAP header that contains the date and time that the method executed. You discover that the date and time information for Client1 must be stored in a different XML format from the format used for Client2. The client application that is making the request is specified as a property of the SOAP header. You need to ensure that date and time information is stored in the correct format for each client application. Your solution must not change the way that ASP.NET handles SOAP requests. What should you do?

- A. Add the SoapElementAttribute attribute with the correct element name for the client application to the field that contains the date and time information.
- B. Change the EncodedRelay property to the name of the method that will create the correct XML formatting for each client application.
- C. Implement the IXmlSerializable interlace in the SOAP header class to return the correct XML format for each client application in the WriteXml method.
- D. Create two XmlSerializer classes and use the WriteHeaders method of the SoapHeaderHandling class to format the XML for each client application.

Answer: C

Question: 105

You are creating a Web service. You need to add an operation that can be called without returning a message to the caller. Which code should you use?

- A. `[System::Web::Services::WebMethod(SoapDocumentMethod(OneWay = true))]bool ProcessName(String^ name) { System::Diagnostics::Trace::WriteLine(name); return false; }`
- B. `[System::Web::Services::WebMethod][OneWay]void ProcessName(String^ name) { System::Diagnostics::Trace::WriteLine(name); }`
- C. `[System::Web::Services::WebMethod][SoapDocumentMethod(OneWay = true)]void ProcessName(String^ name) { System::Diagnostics::Trace::WriteLine(name); }`
- D. `[System::Web::Services::WebMethod][SoapDocumentMethod(Action = "OneWay")]void ProcessName(String^ name) { System::Diagnostics::Trace::WriteLine(name); }`

Answer: C

Question: 106

You write a Web service that is called by two client applications named Client1 and Client2. The Web service must return a SOAP header that contains the date and time that the method executed. You discover that the date and time information for Client1 must be stored in a different XML format from the format used for Client2. The client application that is making the request is specified as a property of the SOAP header. You need to ensure that date and time information is stored in the correct format for each client application. Your solution must not change the way that ASP.NET handles SOAP requests. What should you do?

- A. Add the SoapElementAttribute attribute with the correct element name for the client application to the field that contains the date and time information.
- B. Change the EncodedRelay property to the name of the method that will create the correct XML formatting for each client application.
- C. Implement the IXmlSerializable interlace in the SOAP header class to return the correct XML format for each client application in the WriteXml method.
- D. Create two XmlSerializer classes and use the WriteHeaders method of the SoapHeaderHandling class to format the XML for each client application.

Answer: C

Question: 107

A Console Application calls a Web service named SessionStateService five times, sequentially. The IncrementSessionCounter Web service method increments and returns an integer value that is held in a cookie. (Line numbers are included for reference only.)

```
01 void IncrementSession5Times()
02 SessionStateService^ service = nullptr;
03 ...
04 for (int = 0; i < 5; i++)
05 ...
06 Console.WriteLine(Loop Pass {0} - result = {1})
07 i,
08 service IncrementSessionCounter();
09 }
10 }
```

You need to ensure that when the IncrementSession5Times method is run, the following output is displayed.

Loop Pass 0 - result = 1
Loop Pass 1 - result = 2
Loop Pass 2 - result = 3
Loop Pass 3 - result = 4
Loop Pass 4 - result = 5

What should you do?

- A. Replace line 03 with the following code.
`CookieContainer^ cookies = gcnew CookieContainer();`
Replace line 05 with the following code.
`SessionStateService^ service = gcnew SessionStateService();`
`service_CookieContainer = cookies;`
- B. Replace line 03 with the following code.
`SessionStateService^ service = gcnew SessionStateService();`
- C. Replace line 05 with the following code.
`SessionStateService^ service = gcnew SessionStateService();`
`CookieContainer cookies = gcnew CookieContainer();`
`service_CookieContainer = cookies;`
- D. Replace line 03 with the following code.
`CookieContainer^ cookies = gcnew CookieContainer();`
Replace line 05 with the following code.
`SessionStateService service = gcnew SessionStateService();`
`cookies_GetCookies(gcnew Uri(service_Url));`

Answer: A

Question: 108

A .NET Framework application receives messages from a private message queue named MyQueue. The private queue exists on a computer named APPSERVER1. A user in a domain named CONTOSO has the username dhall. This user reports that when he attempts to run the application, he receives a MessageQueueException exception with the error message text "Access to Message Queuing system is denied." You need to ensure that CONTOSO\dhall can receive messages from MyQueue using the .NET Framework application. Your solution must not give dhall unnecessary privileges. What should you do?

- A. Write the following code segment.
`MessageQueue q = gcnew MessageQueue("APPSERVER1\\Private$\\MyQueue");`
`q_SetPermissions("contoso\\dhall", MessageQueueAccessRights: :FullControl);`
- B. Write the following code segment.
`MessageQueuePermissionEntry' mqpe = gcnew MessageQueuePermissionEntry( MessageQueuePermissionAccess::Receive, "APPSERVER1\\Private$\\MyQueue", "contoso\\dhall", nullptr);`
`MessageQueuePermission p = gcnew MessageQueuePermission(gcnew array <MessageQueuePermissionEntry^> { mqpe });`
`p_Demand();`
- C. Write the following code segment.
`MessageQueuePermissionEntry^ mqpe = gcnew MessageQueuePermissionEntry( MessageQueuePermissionAccess::Administer, "APPSERVER1\\Private$\\MyQueue", "contoso\\dhall", nullptr);`
`MessageQueuePermission^ p`

```
= gcnew MessageQueuePermission(gcnew array <MessageQueuePermissionEntry^> {
mqpe });p_Demand();
D. Write the following code segment.MessageQueue^ q = gcnew
MessageQueue("APPSERVER1\\Private$\\MyQueue");q_SetPermissions("contoso\\dhall",
MessageQueueAccessRights::GenericRead);
```

Answer: D

Question: 109

You are writing an application that creates network accounts for users. The application monitors a private queue and it creates network accounts when messages arrive in that queue. A message contains a User object. The message is sent to the queue using the following code.
MessageQueue q = gcnew MessageQueue(queueName); Message m = gcnew Message(gcnew User("anna", "bedecs")); q_Send(m, "create account");
You need to ensure that the application can process the User object. What should you do?

- A. Write the following code segment to get the User object.

```
q.ReceiveByld("User"); Message^ m = q.Receive(); User^ u = dynamic_cast<User^>(m.Body);
```
- B. Write the following code segment to get the User object.

```
q.ReceiveByld("User"); m = q.Receive(); m.BodyType = 5; User^ u = dynamic_cast<User^>(m.Body);
```
- C. Write the following code segment to get the User object.

```
array<Type^>^ types = {User::typeid}; q.Formatter = gcnew XmlMessageFormatter(types); Message^ m = q.Receive(); User u = dynamic_cast<User>(m.Body);
```
- D. Write the following code segment to get the User object.

```
q.Formatter = gcnew XmlMessageFormatter(); m = q.Receive(); User^ u = dynamic_cast<User^>(m.Body);
```

Answer: C

Question: 110

You create an assembly named SimpleMathLib.dll. SimpleMathLib.dll contains a namespace named SimpleMath. SimpleMath contains a .NET Framework remoting class named SimpleMathClass that inherits from the MarshalByRefObject class. You deploy the SimpleMathLib assembly to the Bin folder under an IIS server virtual directory named SimpleMathHost that is on a server named Server1. You need to configure the server application to initialize the SimpleMathClass class so that the class can be called by remoting client applications. What should you do?

- A. Add the following XML to the configuration element of the Web.config file in the SimpleMathHost virtual directory.

```
<appSettings> <add key="SimpleMath.SimpleMathClass, SimpleMathLib" value="http://server1/SimpleMathHostJSimpleMath.soap"/></appSettings>
```
- B. Add the following XML code to the configuration element of the Web.config file in the SimpleMathHost virtual directory.

```
<system.runtime.remoting> <application> <client> <wellknown type="SimpleMathSimpleMathClass, SimpleMathLib" url="http://server1/SimpleMathHost/SimpleMath.soap"/> </client> </application> </system.runtime.remoting>
```
- C. Add the following XML to the configuration element of the Web.config file in the

SimpleMathHost virtual directory. <system.runtime.remoting> <application> <service>
 <wellknown mode="SingleCall type="SimpleMath.SimpleMathClass, SimpleMathLib"
 objectUri="SimpleMath.soap"/> </service> </application> </system.runtime.remoting>
 D. Add the following XML code to the configuration element of the Web.config file in the
 SimpleMathHost virtual directory. <configSections> <section name="simpleMath"
 type="SimpleMath.SimpleMathClass, SimpleMathLib" /> </configSections> <simpleMath
 mode="SingleCall"> <url>http://server1 /SimpleMathHost/SimpleMath.soap </url>
 </simpleMath>

Answer: C

Question: 111

to the Bin folder that is under a virtual directory named SimpleMathHost, which is on an IIS server named SERVER 1. The SimpleMathLib assembly contains the following code. namespace SimpleMath { public ref class SimpleMathClass: public MarshalByRefObject { public: double Add(double x, double y) { return x + y; }; } The Web.config file under the SimpleMathHost virtual directory contains the proper configuration to host SimpleMath as a remoting object. You write a client Console Application and add a reference to the SimpleMathLib assembly. You need to ensure that the client Console Application calls the Add method on SERVER 1 and returns the correct sum of the parameters to the Console Application. What should you do?

- A. Write the following code in the client application. TcpChannel ^chan = gcnew TcpChannel(); ChannelServices::RegisterChannel(chan, false); SimpleMath::SimpleMathClass ^sm = gcnew SimpleMathClass(); Console::WriteLine(sm Add(2, 2).ToString());
- B. Write the following code in the client application. SimpleMathClass ^sm = (SimpleMathClass ^) Activator::GetObject(SimpleMathClass::typeid, "http://server1:80/SimpleMathHost/SimpleMath.rem"); Console::WriteLine(sm Add(2, 2).ToString());
- C. Write the following code in the client application. SimpleMath::SimpleMathClass ^sm = (SimpleMathClass ^) Activator::GetObject(SimpleMathClass^, "tcp://server1:80/SimpleMathHost/SimpleMath.rem"); Console::WriteLine(sm Add(2, 2).ToString());
- D. Write the following code in the client application. array<String> ^myargs = { "http://server1:80/SimpleMathHost/SimpleMath.rem", "SimpleMath.SimpleMathClass, SimpleMathLib" }; SimpleMath::SimpleMathClass ^sm = (SimpleMathClass ^) Activator::CreateInstance(SimpleMathClass::typeid, myargs); Console::WriteLine(sm Add(2, 2).ToString());

Answer: B

Question: 112

A file named Util.asmx contains the following code segment. (Line numbers are included for reference only.) 01 <%@ WebService class="Exam.Util" %> A file named Util.h contains the following code segment. (Line numbers are included for reference only.) ... 02 namespace Exam { 03 public ref class Util { 04 public: 05 String ^GetData() { 06 return L"data"; 07 } ... You need to expose the GetData method through a Web service. What should you do?

- A. Insert the following line of code between lines 02 and 03. [System::Web::Services::

WebService()]

B. Replace line 03 with the following line of code.`public ref class Util : System::Web::Services::WebService {`

C. Insert the following line of code between lines 04 and 05.`[System::Web::Services::WebMethod()]`

D. Replace line 01 with the following line of code.`<%@ WebService class="System.Web.Services.WebService" %>`

Answer: C

Question: 113

You create a .NET Framework remoting application that provides stock information to customers. The server component raises an event on the client computer when certain conditions are met. You need to ensure the server raises exactly one event for each client application that is registered for the event. What should you do?

A. Configure the server class as a Singleton Server Activated Object (SAO) and check for duplicate client delegate methods before raising the event.

B. Configure the server class as a Client Activated Object (CAO) and override the CreateObjRef method to check for duplicate client delegate methods before raising the event.

C. Configure the server class as a SingleCall Server Activated Object (SAO) and check for duplicate client delegate methods before raising the event.

D. Configure the server class as a Client Activated Object (CAO) and check for duplicate client delegate methods before raising the event.

Answer: A

Question: 114

You are writing a .NET Framework remoting client application that must call two remoting servers.

The first server hosts an assembly that contains the following delegate and class definition.`public delegate bool IsValidDelegate(String^ number, Int16 code);public ref class CreditcardValidator: public MarshalByRefObject { public: bool IsValid (String^ number, Int16 code) { ... };`The second server hosts an assembly that contains the following delegate and class definition.`public delegate float GetCustomerDiscountDelegate( int customerId);public ref class PreferredCustomer ( public: float GetCustomerDiscount(int customerId) { ... };`You configure the remoting client application to call both server classes remotely. The amount of time it takes to return these calls varies, and long response times occur during heavy load times. The processing requires the result from both calls to be returned. You need to ensure that calls to both remoting servers can run at the same time. What should you do?

A. Write the following code segment in the client application `.PreferredCustomer^ pc = gcnew PreferredCustomer(); CreditCardValidator^ val = gcnew CreditCardValidator();double discount = pc GetCustomerDiscount(1001);bool isValid = val IsValid("4111-2222-3333-4444", 123);`

B. Write the following code segment in the client application `PreferredCustomer^ pc = gcnew`

```

PreferredCustomer();GetCustomerDiscountDelegate^ del1 = gcnew
GetcustomerDiscountDelegate(pc,
&PreferredCustomer::GetCustomerDiscount);CreditCardValidator^ val = gcnew
CreditCardValidator();lsValidDelegate^ del2 = new lsValidDelegate(val,
&CreditCardValidator::lsValid);double discount = del1    Invoke(1001);bool isValid =
del2    Invoke("4111-2222-3333-4444", 123);
C. Write the following code segment in the client application.PreferredCustomer^ pc = gcnew
PreferredCustomer();GetCustomerDiscountDelegate^ del1 = gcnew
GetCustomerDiscountDetegate(pc,
&Preferredcustomer::GetcustomerDiscount);lAsyncResult^ res1 = del1    BeginInvoke(1001,
nullptr, nullptr);CreditCardValidator val = gcnew CreditCardValidator();lsValidDelegate^ del2
= gcnew lsValidDelegate(val, &CreditcardValidator::lsValid);lAsyncResult^ res2 =
del2    BeginInvoke("4111-2222-3333-4444" , 123, nullptr, nullptr);array<WaitHandle^>
^waitHandles = gcnew array<WaitHandle ^> {res1    AsyncWaitHandle,
res2    AsyncWaitHandle};ManualResetEvent::WaitAll(waitHandles);double discount =
del1    EndInvoke(res1);bool isValid = del2    EndInvoke(res2);
D. Write the following code segment in the client application.PreferredCustomer^ pc = gcnew
PreferredCustomer();GetCustomerDiscountDelegate^ del1 = gcnew
GetcustomerDiscountDelegate(pc,
&PreferredCustomer::GetCustomerDiscount);lAsyncResult^ res1 = del1    BeginInvoke(1001,
nullptr, nullptr);double discount = del1    EndInvoke(res1);CreditCardValidator^ val = gcnew
CreditCardValidator();lsValidDelegate^ del2 = gcnew lsValidDelegate(val,
&CreditCardValidator:: lsValid);lAsyncResult^ res2 = del2    BeginInvoke("4111-2222-3333-
4444", 123, nullptr, nullptr);bool isValid = del2    EndInvoke(res1);

```

Answer: C

Question: 115

You are writing an application that reads messages from a message queue. The name of the message queue is stored in a member variable named queueName. When a message is read, the application processes the message. The code for the application is as follows:
class MyApp {
MessageQueue queue; public MyApp() { queue = new MessageQueue(queueName,
QueueAccessMode.Receive); queue.ReceiveCompleted += new
ReceiveCompletedEventHandler(this.ReceiveMessage); queue.BeginReceive(); } bool
KeepListening() { } void ProcessMessage(Message m) { }}
You need to ensure that the application continues to read messages when the KeepListening method returns True, and stops when the KeepListening method returns False. What should you do?

```

A. Use the following implementation of the ReceiveMessage method.private void
ReceiveMessage(object sender, ReceiveCompletedEventArgs e) { ProcessMessage(queue
.EndReceive(e.AsyncResult)); if (KeepListening() == true) { queue .BeginReceive(); }}
B. Use the following implementation of the ReceiveMessage method.private void
ReceiveMessage(object sender, ReceiveCompletedEventArgs e) { queue = new
MessageQueue(queueName, QueueAccessMode.Receive);
ProcessMessage(queue.EndReceive(e.AsyncResult)); if (KeepListening() == true) {
queue.BeginReceive }}

```

C. Use the following implementation of the ReceivedMessage method.

```
private void
ReceivedMessage(object sender, ReceiveCompletedEventArgs e) { queue = new
MessageQueue(queueName, QueueAccessMode.Receive);
ProcessMessage(queue.EndReceive(e.AsyncResult)); if (KeepListening() == false) {
queue.ReceiveCompleted -= new ReceiveCompletedEventHandler(this.ReceivedMessage); }}
```

D. Use the following implementation of the ReceivedMessage method.

```
private void
ReceivedMessage(object sender, ReceiveCompletedEventArgs e) {
ProcessMessage(queue.EndReceive(e.AsyncResult)); if (KeepListening() == false) {
queue.ReceiveCompleted -= new ReceiveCompletedEventHandler(this. ReceivedMessage);
}}
```

Answer: A

Question: 116

You are writing an application that will run on a portable computer. The application uses a private queue named MyAppQueue to store messages. You need to ensure that the message is retained when the portable computer is restarted. What should you do?

A. Write the following code segment to send the message.

```
MessageQueue q = new
MessageQueue("MyAppQueue"); Message m = new Message("My message
body"); m.UseJournalQueue = true; q.Send(m, "message");
```

B. Write the following code segment to send the message.

```
MessageQueue q = new
MessageQueue("MyAppQueue"); Message m = new Message("My message
body"); m.Recoverable = true; q.Send(m, "message");
```

C. Write the following code segment to send the message.

```
MessageQueue q = new
MessageQueue("MyAppQueue"); Message m = new Message("My message body");
MessageQueueTransaction trans = new MessageQueueTransaction(); trans.BegingSend(m,
"message", trans); trans.Commit();
```

D. Write the following code segment to send the message.

```
MessageQueue q = new
MessageQueue("MyAppQueue"); Message m = new Message("My message body"); m.Prioritq
= MessagePriority.High; q.Send(m, "message");
```

Answer: B

Question: 117

You write a .NET Framework remoting application that broadcasts messages to client computers through a central server by raising events on the client computers. Message details are contained in an argument in the event delegate, as shown in the following code segment.

```
public delegate
void MessageArrivedHandler(SroadcastEventArgs args); public class BroadcastEventArgs {
public string Message; public string Sender; public DateTime TimeSent}
```

You need to ensure that the client computer can access the message details contained in the event argument. Your solution cannot change the common language runtime (CLR) security restrictions. What should you do?

A. Add the well-known type named SroadcastEventArgs in the server and configure the WellKnownObjectMode mode as SingleCall.

- B. Change the BroadcastEventArgs class so that it extends the MarshalByRefObject object.
- C. Apply the Serializable attribute to the BroadcastEventArgs object.
- D. In the client application's remoting configuration file, make the BroadcastEventArgs class a client-activated object (CAO) that points to the server.

Answer: C

Question: 118

You are creating a Windows-based application that allows users to store photographs remotely by using a Web service. The Web service is configured to use Web Services Enhancements (WSE) 3.0, and it has the following configuration XML in its Web.config file.
`<microsoft.web.services3> <messaging> <mtom serverMode="always"/>`
`</messaging></microsoft.web.seices3>`
You need to configure the application to ensure that a photograph can be sent to the Web service. What should you do?

- A. Add the following XML to the application's App.config file.`<microsoft.web.services3>`
`<messaging> <mtom serverMode="always" /> </messaging></microsoft.web .services3>`
- B. Add the following XML to the application's App.config file.`</microsoft.web .services3>`
`<messaging> <mtom serverMode="never" /> </messaging></microsoft.web .services3>`
- C. Add the following XML to the application's App.config file.`<microsoftweb.services3>`
`<messaging> <mtom clientMode="Off" /> </messaging></microsoft.web .services3>`
- D. Add the following XML to the application's App.config file.`<microsoft.web.services3>`
`<messaging> <mtom clientMode="On" /> </messaging> </microsoft.web .services3>`

Answer: D

Question: 119

You are debugging a Web service application that uses Web Services Enhancements (WSE) 3.0. When you attempt to view tracing information for the Web service requests, you discover that the log file is not being updated as expected. You need to ensure that the log file is updated. What should you do?

- A. Add the following XML to the configuration section of the Web.config file.`</microsoft.web .services3> <diagnostics> <trace enabled="true" input="InputTrace.webinfo" />`
`</diagnostics></microsoft.web.services3>`
- B. Add the following XML to the configuration section of the Web.config file.`<system.diagnostics> <switches> <add name="WseTracing"`
`value="InputTrace.webinfo"/> </switches></system.diagnostics>`
- C. Add the following XML to the system.web section of the Web.config file.`<trace enabled="true"`
`configSource="InputTrace.webinfo" writeToDiagnosticsTrace="true"/>`
- D. Add the following XML to the configuration section of the Web config file
`<microsoftwebservices3> <trace enabled="true" input="InputTrace.webinfo"`
`></microsoft.web.services3>`

Answer: A

Question: 120

You are creating a Web service to expose the public methods on a class. Two overloaded methods are defined in the class as follows:`public Customer GetCustomer(string custId)``public Customer GetCustomer(string name, string postalCode)`**You need to expose both methods on the Web service. Which code segment should you use?**

- A. `[WebMethod][SoapDocumentMethod(Action="GetCustomerSyld")]public Customer GetCustomer(string custId){ ... }`
`[WebMethod][SoapDocumentMethod(Action="GetCustomerflyName")]public Customer GetCustomer(string name, string postalCode){ ... }`
- B. `[WebMethod(Description="GetCustomersyld")]public Customer GetCustomer(string custId){ ... }`
`[WebMethod(Description="GetCustomerByName")]public Customer GetCustomer(string name, string postalCode){ ... }`
- C. `[WebMethod(MessageName="GetCustomersyld")]public Customer GetCustomer(string custId){ ... }`
`[WebMethod(MessageName="GetCustomerByName")]public Customer GetCustomer(string name, string postalCode){ ... }`
- D. `[WebMethod][SoapDocumentMethod(RequestElementName="GetCustomerByld")]public Customer GetCustomer(string custId){ ... }`
`[WebMethodJ[SoapDocumentMethod(RequestElementName="GetCustomerByName)]public Customer GetCustomer(string name, string postalCode){ ... }`

Answer: C

Question: 121

A Web service exposes the following Web method.`[WebMethod(CacheDuration=60)]public byte[] GetImage(string imageld) { ... }`**The Web method generates responses that are greater than 1 MB in size. You need to configure the Web method to minimize memory usage on the server. Which two actions should you Perform? (Each correct answer presents part of the solution. Choose two.)**

- A. **Apply a SoapDocumentMethod attribute to the method declaration with the ParameterStyle property set to SoapParameterStyle Wrapped.**
- B. Apply a SoapDocumentMethod attribute to the method declaration with the ParameterStyle property set to SoapParameterStyle.Bare.
- C. Set the BufferResponse property of the WebMethod attribute to True.
- D. Set the BufferResponse property of the WebMethod attribute to False.
- E. Set the value of the CacheDuration property of the WebMethod attribute to 0.
- F. Set the value of the CacheDuration property of the WebMethod attribute to 300.

Answer: DE

Question: 122

You are creating a Web service. The Web service must be configured to receive the following

message.<soap:Envelope
 xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:Body> <givenName
 xmlns="urn:SampleNS">given name</givenName> <surname
 xmlns="urn:SampleNS">surname</surname> </soap:Body></soap:Envelope>You need to
 ensure that the Web Services Description Language (WSDL) for the Web service describes the
 message. What should you do?

- A. Write the following code for the Web
 method.[WebMethod()][SoapDocumentMethod(Parameterstyle=SoapParameterstyle.Bare,
 Use=SoapBindingUse.Literal)]public string HelloWorld(string givenName, string surname){ ...}
- B. Write the following code for the Web
 method.[WebMethodo][SoapDocumentMethod(Parameterstsele=SoapParameterStyle
 Wrapped, Use=SoapBindinguse.Encoded)]public string HelloWorld(string givenName, string
 surname){ ...}
- C. Write the following code for the Web
 method.[WebMethod][SoapDocumentMethod(ParameterStyle=SoapParameterStyle
 Wrapped, Use=SoapBindingUse.Literal)]public string HelloWorld(string givenName, string
 surname){ ...}
- D. Write the following code for the Web method .[WebMethod]
 SoapDocumentMethod(ParameterStyle=SoapParameterStyle Bare,
 Use=SoapBindingUse.Encoded)]public string HelloWorld(string givenName, string surname){
 ...}

Answer: A

Question: 123

You write a Web service that is called by two client applications named Client1 and Client2. The Web service must return a SOAP header that contains the date and time that the method executed. You discover that the date and time information for Client1 must be stored in a different XMLformatfrom the format used for Client2. The client application that is making the request is specified as a property of the SOAP header. You need to ensure that date and time information is stored in the correct format for each client application. Your solution must not change the way that ASP.NET handles SOAP requests. What should you do?

- A. Add the SoapElementAttribute attribute with the correct element name for the client application to the field that contains the date and time information.
- B. Change the EncodedRelay property to the name of the method that will create the correct XML formatting for each client application.
- C. Implement the IXmlSerializable interface in the SOAP header class to return the correct XML format for each client application in the WriteXml method.
- D. Create two XmlSerializer classes and use the WriteHeaders method of the SoapHeaderHandling class to format the XML for each client application.

Answer: C

Question: 124

A Console Application calls a Web service named SessionStateService five times, sequentially. The IncrementSessionCounter Web service method increments and returns an integer value that is held in a cookie. (Line numbers are included for reference only.)

```
01 void
IncrementSession5Times() (02 SessionStateService service = null;03 ...04 for (int = 0; i <5; i++)
(05 ...06 Console.WriteLine("Loop Pass {0} - result = (1)",07 i,08
service.IncrementSessionCounter());09 }10 }
```

You need to ensure that when the IncrementSession5Times method is run, the following output is displayed

```
Loop Pass 0 - result = 1
Loop Pass 1 - result = 2
Loop Pass 2 - result = 3
Loop Pass 3 - result = 4
Loop Pass 4 - result = 5
```

What should you do?

- A. Replace line 03 with the following code.

```
CookieContainer cookies = new
CookieContainer();
```

Replace line 05 with the following code.

```
SessionStateService service =
new SessionStateService();
service.CookieContainer = cookies;
```
- B. Replace line 03 with the following code.

```
SessionState Service service = new
SessionStateService();
```
- C. Replace line 05 with the following code .

```
SessionStateService service = new
SessionStateService();
CookieContainer cookies = new
CookieContainer();
service.CookieContainer = cookies;
```
- D. Replace line 03 with the following code.

```
CookieContainer cookies = new
CookieContainer();
```

Replace line 05 with the following code .

```
SessionStateService service =
new SessionStateService();
cookies.GetCookies(new Uri(service .Url));
```

Answer: A

Question: 125

You are creating a Web service by using ASP.NET. You need to ensure that the Web Services Description Language (WSDL) file that is generated is Web services interoperability (WS-I) compliant and that it allows message validation. What should you do?

- A. Add the following attribute definition to the Web service.

```
[SoapRpcMethod(Use=SoapBindingUse.Encoded)]
```
- B. Add the following attribute definition to the Web service.

```
[SoapRpcMethod(Use=SoapBindingUse.Literal)]
```
- C. Add the following attribute definition to the Web service.

```
[SoapDocumentMethod(Use=SoapBindingUse.Encoded)]
```
- D. Add the following attribute definition to the Web service

```
[SoapDocumentMethod(Use=SoapBindingUse.Literal)]
```

Answer: D

Question: 126

A client application must connect to a .NET Framework remoting class that is running in a Windows service that is deployed to a computer named APPSERVER1. The class is named SimpleMathclass and it exists within a namespace named SimpleMath in an assembly named SimpleMathLib. It is exposed through the TCP and it is configured with the objectUri attribute set to SimpleMath rem. You write the following XML configuration settings in the App.config file of

the

client application.`<configuration> <system.runtime.remoting> <application> </application>
</system.runtime.remoting></configuration>` You need to ensure that the client application can connect to the remoting class. What should you do?

- A. Add the following XML configuration settings to the application element of the client application's App.config file `<service name="SimpleMathHost"> <wellknown mode="SingleCall" type="SimpleMath.SimpleMathClass, SimpleMathLib" objectUri="SimpleMath.rem"/></service>`
- B. Add the following XML configuration settings to the application element of the client application's App.config file `<client> <wellknown type="SimpleMath.SimpleMath, SimpleMath" url="http://APPSERVER1:3005/SimpleMathHost/SimpleMath.rem"/> </client>`
- C. Add the following XML configuration settings to the application element of the client application's App.config file `<service name="SimpleMathHost"> <wellknown mode="Singleton" type="SimpleMath.SimpleMathClass, SimpleMathLib" objectUri="SimpleMath.rem"/></service>`
- D. Add the following XML configuration settings to the application element of the client application's App.config file. `<client> <wellknown type="SimpleMath.SimpleMathClass, SimpleMathLib" url="tcp://APPSERVER1:3065/SimpleMath.rem"/></client>`

Answer: D

Question: 127

You create .NET Framework remoting ComponentB that must be deployed on an unattended application server. 113 is not installed on the application server. Company policy requires that no changes be made to the application server except the deployment of approved custom code that is written by your development team. You need to ensure that the ComponentB can run on the unattended application server. What should you do?

- A. Create a Console Application project to host the ComponentB.
- B. Create a Windows-based application project to host the ComponentB.
- C. Create an ASP.NET Web application Web site to host the ComponentB.
- D. Create a Windows service to host the ComponentB.
- E. Create an ASP.NET Web service Web site to host the ComponentB.

Answer: D

Question: 128

You create a serviced component. You install the component into the COM+ catalog. COM+ runs on the server. A Windows-based application that is installed on multiple desktop computers must use the component. The component must run on the server, but the Windows-based application must send component method calls over the network to the component. The communications protocol used is DCOM. You need to ensure that the Windows-based application can connect to the component. What should you do?

- A. In the client application, create the serviced component using the Marshal class to bind to the

following moniker."tcp://MyComponent.MyServicedComponent"

B. In the client application, create the serviced component using the Marshal class to bind to the following moniker."dcom://MyComponents.MyservicedComponent"

C. Generate a proxy component for the serviced component and install it on the desktop computers that are running the client application. In the client application, create a reference to the serviced component's assembly.

D. Generate a proxy component for the serviced component and install it on the desktop computers that are running the client application. In the client application, create a reference to the serviced component's type library.

Answer: C

Question: 129

You are writing an application that will run on a portable computer. The application uses a private queue named MyAppQueue to store messages. You need to ensure that the message is retained when the portable computer is restarted. What should you do?

A. Write the following code segment to send the message.
`Dim q As MessageQueue = New MessageQueue(".\Private$\MyAppQueue")
Dim m As Message = New Message("My message body")
m.UseJournalQueue = True
q.Send(m, "message")`

B. Write the following code segment to send the message.
`Dim q As MessageQueue = New MessageQueue(".\Private$\MyAppQueue")
Dim m As Message = New Message("My message body")
m.Recoverable = True
q.Send(m, "message")`

C. Write the following code segment to send the message.
`Dim q As MessageQueue = New MessageQueue(".\Private$\MyAppQueue")
Dim m As Message = New Message("My message body")
Dim trans As MessageQueueTransaction = New MessageQueueTransaction()
trans.BeginSend(m, "message", trans)
trans.Commit()`

D. Write the following code segment to send the message.
`Dim q As MessageQueue = New MessageQueue(".\Private$\MyAppQueue")
Dim m As Message = New Message("My message body")
m.Recoverable = True
m.Priority = MessagePriority.High
q.Send(m, "message")`

Answer: B

Question: 130

You are creating a Web service. You need to add an operation that can be called without returning a message to the caller. Which code should you use?

A. `<WebMethod()> _<SoapDocumentMethod(OneWay:=True)> _Public Function ProcessName(ByVal Name As String) As Boolean...Return FalseEnd Function`

B. `<WebMethod()> _<OneWay()> _Public Sub ProcessName()...End Sub`

C. `<WebMethod()> _<SoapDocumentMethod(OneWay:=True)> _Public Sub ProcessName()...End Sub`

D. `<WebMethod()> _<SoapDocumentMethod(Action:="OneWay")> _Public Sub ProcessNamefl.
End Sub`

Answer: C

Question: 131

A Console Application calls a Web service named SessionStateService five times, sequentially. The IncrementSessionCounter Web service method increments and returns an integer value that is held in a cookie. (Line numbers are included for reference only.)
01 Public Sub IncrementSession5Times()
02 Dim service As New SessionStateService()
03 ...
04 Dim i As Integer
05 For i = 0 To 406 ...
07 Console.WriteLine("Loop Pass {0} - result = {1}", i, service.IncrementSessionCounter())
09 Next i
10 End Sub
You need to ensure that when the IncrementSession5Times method is run, the following output is displayed.
Loop Pass 0 - result = 1
Loop Pass 1 - result = 2
Loop Pass 2 - result = 3
Loop Pass 3 - result = 4
Loop Pass 4 - result = 5
What should you do?

- A. Replace line 03 with the following code.
Dim cookies As New CookieContainer();
Replace line 06 with the following code.
Dim service As New SessionStateService();
service.CookieContainer = cookies
- B. Replace line 03 with the following code.
Dim service As New SessionStateService()
- C. Replace line 06 with the following code.
Dim service As New SessionStateService()
Dim cookies As New CookieContainer()
service.CookieContainer = cookies
- D. Replace line 03 with the following code.
Dim cookies As New CookieContainer();
Replace line 06 with the following code.
Dim service As New SessionStateService();
cookies.GetCookies(New Uri(service.Url))

Answer: A

Question: 132

You write a Web service that is called by two client applications named Client1 and Client2. The Web service must return a SOAP header that contains the date and time that the method executed. You discover that the date and time information for Client1 must be stored in a different XML format from the format used for Client2. The client application that is making the request is specified as a property of the SOAP header. You need to ensure that date and time information is stored in the correct format for each client application. Your solution must not change the way that ASP.NET handles SOAP requests. What should you do?

- A. Add the SoapElementAttribute attribute with the correct element name for the client application to the field that contains the date and time information.
- B. Change the EncodedRelay property to the name of the method that will create the correct XML formatting for each client application.
- C. Implement the IXmlSerializable interface in the SOAP header class to return the correct XML format for each client application in the WriteXml method.
- D. Create two XmlSerializer classes and use the WriteHeaders method of the SoapHeaderHandling class to format the XML for each client application.

Answer: C

Question: 133

You are creating a Web service by using ASP.NET. You need to ensure that the Web Services Description Language (WSDL) file that is generated is Web services interoperability (WS-I) compliant and that it allows message validation. What should you do?

- A. Add the following attribute definition to the Web service.<SoapRpcMethod(Use:=SoapBindinguse.Encoded)>
- B. Add the following attribute definition to the Web service.<SoapRpcMethod(Use:=SoapBindinguse.Literal)>
- C. Add the following attribute definition to the Web service.<SoapDocumentMethod(Use:=SoapBindinguse.Encoded)>
- D. Add the following attribute definition to the Web service.<SoapDocumentMethod(Use:=SoapBindingUse.Literal)>

Answer: D

Question: 134

You call a method in a Web service. The following exception is thrown in the Web service client. System.Web.Services.Protocols.SoapException: Server was unable to process request. System.NullReferenceException: Object reference not set to an instance of an object. You discover that it is the following line of code that throws the exception. If Session("StoredValue") Is Nothing Then You need to ensure that the method runs without throwing the exception. What should you do?

- A. Modify the WebMethod attribute in the Web service so that the EnableSession property is set to True.
- B. In the client code for the Web service's proxy object, assign a new instance of the System.Net.CookieContainer object to the CookieContainer property.
- C. Add the following element to the System .Web section of the Web.config file.<sessionState mode="InProc" />
- D. Add the following elements to the System.Web section of the Web.config file.<httpModules>
<add name="Session"
type="System.Web.SessionState.SessionStateModule" /></httpModules>

Answer: A

Question: 135

An application contains .NET Framework Web services that are built by using Microsoft Visual Studio 2005. Discovery information for these Web services must be made available to client applications. You need to expose the Disco files for all Web services in the application. What should you do?

- A. Add a .vsdisco file to the application root and add the corresponding httpHandler to the Web.config file.
- B. Use the Sproxy.exe tool to create the Disco files from the .wsdl files.
- C. Add a set of Disco files to the application root and add the PageHandlerFactory httpHandler to the Web.config file.
- D. Add the description parameter to the WebService attribute in the class files.

Answer: A

Question: 136

A Web service exposes the following Web method .<WebMethod(CacheDuration: =60)> _Public Function GetImage(ByVal imageId As String) As Syte() End FunctionThe Web method generates responses that are greater than 1 MB in size. You need to configure the Web method to minimize memory usage on the server. Which two actions should you Perform? (Each correct answer presents part of the solution. Choose two.)

- A. Apply a SoapDocumentMethod attribute to the method declaration with the ParameterStyle property set to SoapParameterStyle.Wrapped.
- B. Apply a SoapDocumentMethod attribute to the method declaration with the ParameterStyle property set to SoapParameterStyle.Bare.
- C. Set the BufferResponse property of the WebMethod attribute to True.
- D. Set the BufferResponse property of the WebMethod attribute to False.
- E. Set the value of the CacheDuration property of the WebMethod attribute to 0
- F. Set the value of the CacheDuration property of the WebMethod attribute to 300.

Answer: DE

Question: 137

You are creating a Web service to expose the public methods on a class. Two overloaded methods are defined in the class as follows:Public Function GetCustomer(ByVal custId As String) As Customer Public Function GetCustomer(ByVal name As String, _ ByVal postalCode As String) As CustomerYou need to expose both methods on the Web service. Which code segment should you use?

- A. <WebMethod()> _<SoapDocumentMethod(Action:="GetCustomerByld")> _Public Function GetCustomer(ByVal custId As String) As Customer End Function <WebMethod()> _<SoapDocumentMethod(Action: ='GetCustomerByName")> _Public Function GetCustomer(ByVal name As String, _ ByVal postalCode As String) As Customer ...End Function
- B. <WebMethod(Description:="GetCustomerByld")> _Public Function GetCustomer(ByVal custId As String) As Customer ...End Function <WebMethod(Description:="GetCustomerByName")> _Public Function GetCustomer(ByVal name As String, _ ByVal postalCode As String) As Customer.End Function
- C. <WebMethod(MessageName:="GetCustomerByld")> _Public Function GetCustomer(ByVal custId As String) As Customer End Function <WebMethod(MessageName:="GetCustomerByName")> _Public Function GetCustomer(ByVal name As String, _ ByVal postalCode As String) As Customer ...End Function
- D. <WebMethod()> _<SoapDocumentMethod(RequestElementName:="GetCustomerByld")> _Public Function GetCustomer(ByVal custId As String) As Customer ..End Function <WebMethod()> _<SoapDocumentMethod(RequestElementName:="GetCustomerByName")> _Public Function GetCustomer(ByVal name As String, - ByVal postalCode As String) As

Customer ...End Function

Answer: C

Question: 138

When you execute a client application, the following exception is thrown. EncryptedKeyToken is expected but not present in the security header of the incoming message. You discover that the exception is thrown when the client application invokes a Web service named Math with the following code. (Line numbers are included for reference only.)

```
01 Try
02 Dim ws As New MathWse()
03 Dim i As Integer = ws.Add(1, 2)
04 Console.WriteLine(i.ToString())
05 Catch ex As Exception
06 MessageBox.Show(ex.Message)
07 End Try
```

The client application and Web service have the same Web Services Enhancements (WSE) 3.0 policy. The policy configuration file contains the following policy section.

```
<policy name="Secure"> <anonymousForCertificateSecurity
establishSecurityContext="false" renewExpiredSecurityContext="true"
requireSignatureConfirmation="false" messageProtectionOrder="SignBeforeEncrypt"
requireDerivedKeys="true" ttlInSeconds="300"> <!-- XML defining the serviceToken and
protection </anonymousForCertificateSecurity</policy>
```

You need to ensure that the client application can communicate with the Web service. What should you do?

- A. Add the following code between lines 02 and 03. `ws.SetPolicy("Secure")`
- B. Replace line 02 with the following code. `Dim ws As New Math()`
- C. Add the following code between lines 02 and 03. `ws.UseDefaultCredentials = True`
- D. Add the following code between lines 02 and 03. `Dim u As New UsernameToken("userid", "password")`
`Dim et As New EncryptedKeyToken(u)`
`ws.SetClientCredential(et)`
- E. Add the following code between lines 02 and 03. `ws.SetPolicy("anonymousForCertificateSecurity")`

Answer: A

Question: 139

You write a .NET Framework remoting application that broadcasts messages to client computers through a central server by raising events on the client computers. Message details are contained in an argument in the event delegate, as shown in the following code segment.

```
Public Delegate Sub MessageArrivedHandler(args As BroadcastEventArgs)
Public Class SroadcastEventArgs
Public Message As String
Public Sender As String
Public TimeSent As Date
End Class
```

You need to ensure that the client computer can access the message details contained in the event argument. Your solution cannot change the common language runtime (CLR) security restrictions. What should you do?

- A. Add the well-known type named BroadcastEventArgs in the server and configure the WellKnownObjectMode mode as SingleCall.
- B. Change the SroadcastEventArgs class so that it extends the MarshalByRefObject object.
- C. Apply the Serializable attribute to the BroadcastEvent4args object.
- D. In the client application's remoting configuration file, make the BroadcastEventArgs class a client-activated object (CAO) that points to the server.

Answer: C

Question: 140

An application calls a Web method asynchronously by using the following code. (Line numbers are included for reference only.)
01 Sub ProcessData()
02 Dim serviceProxy As New
ProcessingService
03 Dim asyncResult As IAsyncResult = Nothing
04 asyncResult =
serviceProxy.BeginProcess(data, Nothing, _
05 Nothing)
06 While (Not
asyncResult.IsCompleted)
07 Thread.Sleep(1000)
08 End While
09 serviceProxy.EndProcess
(asyncResult)
10 End Sub
You need to ensure that the application can process and log any exceptions raised by the Web method. What should you do?

- A. Replace line 10 with the following code.
Try serviceProxy.EndProcess(asyncResult)
Catch ex As Exception
LogException(ex)
End Try
- B. Replace lines 06, 07, and 08 with the following code.
Try
While (Not asyncResult.IsCompleted)
Thread.Sleep(1000)
End While
Catch ex As Exception
LogException(ex)
End Try
- C. Replace line 09 with the following code.
If TypeOf asyncResult.AsyncState Is Exception
Then
LogException(asyncResult.AsyncState)
End If
- D. Replace line 04 with the following code.
Try
asyncResult = serviceProxy.BeginProcess(data,
Nothing, Nothing)
Catch ex As Exception
LogException(ex)
End Try

Answer: A

Question: 141

You create .NET Framework remoting ComponentB that must be deployed on an unattended application server. .NET is not installed on the application server. Company policy requires that no changes be made to the application server except the deployment of approved custom code that is written by your development team. You need to ensure that the ComponentB can run on the unattended application server. What should you do?

- A. Create a Console Application project to host the ComponentB.
- B. Create a Windows-based application project to host the ComponentB.
- C. Create an ASP.NET Web application Web site to host the ComponentB.
- D. Create a Windows service to host the ComponentB.
- E. Create an ASP.NET Web service Web site to host the ComponentB.

Answer: D

Question: 142

You write a Web service that is called by two client applications named Client1 and Client2. The Web service must return a SOAP header that contains the date and time that the method executed. You discover that the date and time information for Client1 must be stored in a different XML format from the format used for Client2. The client application that is making the request is specified as a property of the SOAP header. You need to ensure that date and time information is stored in the correct format for each client application. Your solution must not change the way that ASP.NET handles SOAP requests. What should you do?

- A. Add the SoapLlmentAttribute attribute with the correct element name for the client application to the field that contains the date and time information.
- B. Change the EncodedRelay property to the name of the method that will create the correct XML formatting for each client application.
- C. Implement the IXmlSerializable interface in the SOAP header class to return the correct XML format for each client application in the WriteXml method.
- D. Create two XmlSerializer classes and use the WriteHeaders method of the SoapHeaderHandling class to format the XML for each client application.

Answer: C

Question: 143

A Console Application calls a Web service named SessionStateservice five times, sequentially. The IncrementSessionCounter Web service method increments and returns an integer value that is held in a cookie. (Line numbers are included for reference only.)

```

01 void
IncrementSession5Times() (02 SessionStateService^ service = nullptr;03
.04 for (int = 0; i < 5;
i++) {05
.06 Console::WriteLine("Loop Pass {0} - result = {1}",07 i,08
Service IncrementSessionCounter());09 }10 }

```

You need to ensure that when the IncrementSession5Times method is run, the following output is displayed.

```

Loop Pass 0 - result = 1
Loop Pass 1 - result = 2
Loop Pass 2 - result = 3
Loop Pass 3 - result = 4
Loop Pass 4 - result = 5

```

What should you do?

- A. Replace line 03 with the following code.
`CookieContainer^ cookies = gcnew CookieContainer();`
Replace line 05 with the following code.
`SessionStateService service = gcnew SessionStateService();`
`service CookieContainer = cookies;`
- B. Replace line 03 with the following code.
`SessionStateService^ service = gcnew SessionStateService();`
- C. Replace line 05 with the following code.
`.SessionStateService^ service = gcnew SessionStateService();`
`CookieContainer^ cookies = gcnew CookieContainer();`
`service CookieContainer = cookies;`
- D. Replace line 03 with the following code.
`CookieContainer^ cookies = gcnew CookieContainer();`
Replace line 05 with the following code.
`Session StateService^ service = gcnew SessionStateService();`
`cookies GetCookies(gcnew Uri(service Url));`

Answer: A

Question: 144

You are creating a Web service by using ASP.NET. You need to ensure that the Web Services Description Language (WSDL) file that is generated is Web services interoperability (WS-I) compliant and that it allows message validation. What should you do?

- A. Add the following attribute definition to the Web service.
`SoapRpcMethod(Use=SoapBindingUse::Encoded)]`
- B. Add the following attribute definition to the Web service.
`[SoapRpcMethod(Use=SoapBindinguse::Literal)]`
- C. Add the following attribute definition to the Web

service.[SoapDocumentMethod(Use=SoapBindingUse::Encoded)]
D. Add the following attribute definition to the Web
service.[SoapDocumentMethod(Use=SoapBindingUse::Literal)]

Answer: D

Question: 145

You are creating a Web service. You need to add an operation that can be called without returning a message to the caller. Which code should you use?

- A. [System::Web::Services::WebMethod[SoapDocumentMethod(OneWay = true)]bool ProcessName(String^ name) { System::Diagnostics::Trace::WriteLine(name); return false; }
- B. [System::Web::Services::WebMethod][OneWay]void ProcessName(String^ name) { System::Diagnostics::Trace::WriteLine(name); }
- C. [System::Web::Services::WebMethod][SoapDocumentMethod(OneWay = true)]void ProcessName(String^ name) { System::Diagnostics::Trace::WriteLine(name); }
- D. [System::Web::Services::WebMethod][SoapDocumentMethod(Action = "OneWay")]void ProcessName(StringA name) { System::Diagnostics::Trace::WriteLine(name); }

Answer: C

Question: 146

You are debugging a .NET Framework remoting application in Microsoft Visual Studio 2005. Your solution contains three projects as follows: SimpleMathLib is a class library project. SimpleMathLib contains the remoting classes that will compile to a common assembly. SimpleMathHost is a Windows service project. SimpleMathHost is installed on your computer and it hosts SimpleMathLib. SimpleMathClient is a Windows Forms application project. SimpleMathClient is the remoting client application. When you run the SimpleMathClient application, you receive an error message. You set a breakpoint in the SimpleMathLib class library where you suspect the error. When you run SimpleMathClient in the debugger, the error occurs again, and the debugger does not stop on the breakpoint. You confirm that the breakpoint has been configured correctly. You need to ensure that you can hit the breakpoint and step through the code. What should you do?

- A. Copy the SimpleMathLib.dll file to the global assembly cache and copy the SimpleMathLib.pdb file to the root folder on the system drive.
- B. Copy the SimpleMathLib.pdb file from the SimpleMathLib project folder to the folder in which SimpleMathHost.exe is installed.
- C. Attach to the SimpleMathHost.exe process.
- D. Attach to the w3wp.exe process.

Answer: C

Question: 147

You create NET Framework remoting ComponentB that must be deployed on an unattended application server. IIS is not installed on the application server. Company policy requires that no

changes be made to the application server except the deployment of approved custom code that

is written by your development team. You need to ensure that the ComponentB can run on the unattended application server. What should you do?

- A. Create a Console Application project to host the ComponentB.
- B. Create a Windows-based application project to host the ComponentB.
- C. Create an ASP.NET Web application Web site to host the ComponentB.
- D. Create a Windows service to host the ComponentB.
- E. Create an ASP.NET Web service Web site to host the ComponentB.

Answer: D

Question: 148

A Windows service application must host a .NET Framework remoting class named SimpleMathClass. SimpleMathClass must have the following method, which can be called remotely: public: double Add(double x, double y) { return x + y;} You need to create the SimpleMathClass class. What should you do?

- A. Write the following class definition `public ref class SimpleMathClass: public MarshalByRefObject { public: double Add(double x, double y) { return x + y; } }`
- B. Write the following class definition. `[AutomationProxy(true)] public ref class SimpleMathclass { public: double Add(double x, double y) { return x + y; } }`
- C. Write the following class definition. `[Serializable] public ref class SimpleMathClass { public: double Add(double x, double y) { return x + y; } }`
- D. Write the following class definition `public ref class SimpleMathClass: public ServicedComponent { public: double Add(double x, double y) { return x + y; } }`

Answer: A, C

Question: 149

You write a client application that uses a Web service. The Web service is hosted in a Windows service application. The Web service can be called only by using TCP. You are provided with the proxy that is enabled by Web Services Enhancements (WSE) 3.0. The proxy was generated by adding a Web reference by using Microsoft Visual Studio 2005. You need to ensure that the proxy calls the Web service correctly. Which two actions should you Perform? (Each correct answer presents part of the solution. Choose two.)

- A. On the Destination property of the proxy, set the TransportAddress property to the TCP address of the hosted Web service.
- B. Set the Action object in the SOAP requests addressing headers to the name of the Web service method you want to call.
- C. Change the URL of the proxy to the TCP address of the hosted Web service.
- D. Set the Action object in the SOAP requests addressing headers to the TCP address of the

Web service you want to call.

Answer: BC

Question: 150

You are creating a Web service to expose the public methods on a class. Two overloaded methods are defined in the class as follows: public: Customer AGetCustomer(String Acustld); Customer AGetCustomer(string Aname String ApostalCode); You need to expose both methods on the Web service. Which code segment should you use?

- A. (WebMethod)[SoapDocumentMethod(Action="GetCustomerByld")]Customer ^GetCustomer (String ^custld)[WebMethod][SoapDocumentMethod (Action="GetCustomerByName")]Customer GetCustomer(String ^name String ^postalCode)
- B. [WebMethod(Description="GetCustomersyld")]Customer ^GetCustomer(string ^custld) [WebMethod(Description="GetCustomersyName")]Customer ^GetCustomer(string ^name, String ^postalCode)
- C. [WebMethod(MessageName="GetCustomersyld")]Customer setCustomer(String custld) [WebMethod(MessageName="GetCustomersyName")]Customer ^GetCustomer(String ^name String ^postalCode)
- D. (WebMethod)[SoapDocumentMethod(RequestElementName="GetCustomerByld")]Customer ^setCustomer(String ^custld)[WebMethod][SoapDocumentMethod (RequestElementName="GetCustomerByName")]Customer ^GetCustomer(String ^name, String ^postalCode)

Answer: C

Question: 151

An application contains .NET Framework Web services that are built by using Microsoft Visual Studio 2005. Discovery information for these Web services must be made available to client applications. You need to expose the Disco files for all Web services in the application. What should you do?

- A. Add a .vsdisco file to the application root and add the corresponding httpHandler to the Web.config file.
- B. Use the Sproxy.exe tool to create the Disco files from the .wsdl files.
- C. Add a set of Disco files to the application root and add the PageHandlerFactory httpHandler to the Web.config file.
- D. Add the description parameter to the WebService attribute in the class files.

Answer: A

Question: 152

A Web service exposes the following Web method: public: [WebMethod(CacheDuration=60)] array<Byte> ^GetImage(String ^imageld) { ...} The Web method generates responses that are greater than 1 MB in size. You need to configure the Web method to minimize memory usage on the server. Which two actions should you Perform? (Each correct answer presents part of the

solution. Choose two.)

- A. Apply a SoapDocumentMethod attribute to the method declaration with the ParameterStyle property set to SoapParameterStyle.Wrapped.
- B. Apply a SoapDocumentMethod attribute to the method declaration with the ParameterStyle property set to SoapParameterStyle.Bare.
- C. Set the BufferResponse property of the WebMethod attribute to True.
- D. Set the BufferResponse property of the WebMethod attribute to False.
- E. Set the value of the CacheDuration property of the WebMethod attribute to 300.
- F. Set the value of the CacheDuration property of the WebMethod attribute to 300.

Answer: DE

Question: 153

You are writing an application that will run on a portable computer. The application uses a private queue named MyAppQueue to store messages. You need to ensure that the message is retained when the portable computer is restarted. What should you do?

- A. Write the following code segment to send the message.
`MessageQueue^ q = gcnew MessageQueue(\\$Private\\MyAppQueue); Message^ m = gcnew Message("My message body"); m.UseJournalQueue = true; q.Send(m, "message");`
- B. Write the following code segment to send the message.
`MessageQueue^ q = gcnew MessageQueue(\\$Private\\MyAppQueue); Message^ m = gcnew Message("My message body"); m.Recoverable = true; q.Send(m, "message");`
- C. Write the following code segment to send the message.
`MessageQueue() q = gcnew MessageQueue(\\$Private\\MyAppQueue); Message^ m = gcnew Message("My message body"); MessageQueueTransaction^ trans = gcnew MessageQueueTransaction(); trans.Begin(); q.Send(m, "message", trans); trans.Commit();`
- D. Write the following code segment to send the message.
`MessageQueue^ q = gcnew MessageQueue(\\$Private\\MyAppQueue); Message^ m = gcnew Message("My message body"); m.Priority = MessagePriority::High; q.Send(m, "message");`

Answer: B

Question: 154

A .NET Framework remoting server hosts a class library that contains the following class `public ref class SimpleMathClass: public MarshalByRefObject { public: void LogData(DataRow^ dr) { ... } }`. Users of a Windows-based client application report that the application often becomes nonresponsive. You discover that the application makes calls to the LogData method that take several seconds to return. You need to ensure that calls to the LogData method can be processed without causing the client application to become nonresponsive. What should you do?

- A. Modify the class to implement the IAsyncResult interface.
- B. Modify the method so that it is an asynchronous method.
- C. Apply the OneWayAttribute attribute to the LogData method.
- D. Apply the SoapRpcMethodAttribute attribute to the LogData method and initialize its OneWay

member to True.

Answer: C