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70-503

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Microsoft 70-503(C#)

Question: 1

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service uses the net.tcp transport. You need to ensure that when the server starts, the service starts and continues to run. What should you do?

- A. Host the service in a Windows service.
- B. Host the service in a Windows Presentation Foundation application.
- C. Host the service under IIS 7.0 by using IIS 6.0 compatibility mode.
- D. Host the service under IIS 7.0 by using Windows Activation Services.

Answer: A

Question: 2

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a managed Console application. You want to add endpoints to the service. You need to ensure that all endpoints use the same base address. Which code fragment should you use?

- A.

```
[ServiceContract]public interface IMortgageService {}public class MortgageService : IMortgageService {Uri baseAddress=new Uri("http://localhost:8888/MortgageService");ServiceHost serviceHost= new ServiceHost(typeof(MortgageService), new Uri[] {baseAddress});serviceHost.AddServiceEndpoint(typeof(IMortgageService), new BasicHttpBinding(), "");serviceHost.Open();}
```
- B.

```
[ServiceContract]public interface IMortgageService {}public class MortgageService : IMortgageService {Uri baseAddress=new Uri("http://localhost:8888/MortgageService");ServiceHost serviceHost= new ServiceHost(typeof(MortgageService), new Uri[] {});serviceHost.AddServiceEndpoint(typeof(IMortgageService), new BasicHttpBinding(), baseAddress);serviceHost.Open();}
```
- C.

```
[ServiceContract]public interface IMortgageService {}public class MortgageService : IMortgageService {string baseAddress="http://localhost:8888/MortgageService";ServiceHost serviceHost= new ServiceHost(typeof(MortgageService), new Uri[] {baseAddress});serviceHost.AddServiceEndpoint(typeof(IMortgageService), new BasicHttpBinding(), baseAddress);serviceHost.Open();}
```
- D.

```
[ServiceContract(Namespace="http://localhost:8888/MortgageService")]public interface IMortgageService {}public class MortgageService : IMortgageService {ServiceHost serviceHost= new ServiceHost(typeof(MortgageService), new Uri[] {});serviceHost.AddServiceEndpoint(typeof(IMortgageService), new BasicHttpBinding(), "");serviceHost.Open();}
```

Answer: A

Question: 3

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You need to host the WCF service on the IIS Web server. First, you create a new folder for your application files. Next, you use the IIS management tool to create a Web application in the new folder. Which three actions should you perform next? (Each correct answer presents part of the solution. Choose three.)

- A. Create a web.config file that contains the appropriate configuration code. Place this file in the application folder.
- B. Create a web.config file that contains the appropriate configuration code. Place this file in the same folder as your service contract code.
- C. Create a service file that has the .svc extension containing the @service directive information for the service. Move this file to the application folder.
- D. Create a service file that has the .svc extension containing the @servicehost directive information for the service. Move this file to the application folder.
- E. Create a vti_bin sub-folder within the application folder for your code files. Place the code file that defines and implements the service contract in this folder.
- F. Create an App_Code sub-folder within the application folder for your code files. Place the code file that defines and implements the service contract in this folder.

Answer: A, D, F

Question: 4

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted on a Web server. You add the following code fragment to the .svc file. <% @ServiceHost Factory="ExamServiceFactory" Service="ExamService" %> You need to create the instances of the services by using the custom ExamServiceFactory class. Which code segment should you use?

- A.

```
public class ExamServiceFactory : ServiceHost{ protected override void ApplyConfiguration() {  
//Implementation code comes here. }}
```
- B.

```
public class ExamServiceFactory : ServiceHostBase{ protected override void  
ApplyConfiguration() { //Implementation code comes here. }}
```
- C.

```
public class ExamServiceFactory : ServiceHostFactory{ protected override ServiceHost  
CreateServiceHost(Type serviceType, Uri[] baseAddresses) { //Implementation code comes here.  
}}
```
- D.

```
public class ExamServiceFactory : ServiceHost{ public ExamServiceFactory(Type  
serviceType, params Uri[] baseAddresses) : base(serviceType, baseAddresses) {  
//Implementation code comes here. }}
```

Answer: C

Question: 5

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to expose two different service endpoints that have the same address. Which configuration setting should you use?

- A.

```
<service name="ExamService"> <endpoint address="http://localhost:8080/service"  
binding="wsHttpBinding" contract="ISimpleExam"/> <endpoint address="http:  
//localhost:8080/service" binding="wsHttpBinding" contract="IComplexExam"/></service>
```

B. <service name="ExamService"> <endpoint address="http: //localhost:8080/service" binding="wsHttpBinding" contract="ISimpleExam"/> <endpoint address="http: //localhost:8080/service" binding="wsDualHttpBinding" contract="IComplexExam"/></service>
 C. <service name="ExamService"> <host> <baseAddresses> <add baseAddress="http: //localhost:8080/service"/> </baseAddresses> </host> <endpoint binding="wsHttpBinding" contract="ISimpleExam"/> <endpoint binding="basicHttpBinding" contract="IComplexExam"/></service>
 D. <service name="ExamService"> <host> <baseAddresses> <add baseAddress="http: //localhost:8080"/> </baseAddresses> </host> <endpoint address="service" binding="wsHttpBinding" contract="ISimpleExam"/> <endpoint address="service" binding="basicHttpBinding" contract="IComplexExam"/></service>

Answer: A

Question: 6

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to host the service in a medium trust environment on a Web server. Which two bindings should you use? (Each correct answer presents a complete solution. Choose two.)

- A. NetMsmqBinding
- B. BasicHttpBinding
- C. WSDualHttpBinding
- D. NetTcpBinding
- E. WebHttpBinding

Answer: B, E

Question: 7

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to programmatically add the following endpoint definition to the service. http://localhost:8000/ExamService/service Which code segment should you use?

- A. String baseAddress="http: //localhost:8000/ExamService";BasicHttpBinding binding1=new BasicHttpBinding();using(ServiceHost host=new ServiceHost(typeof(ExamService)))
 host.AddServiceEndpoint(typeof(IExam),binding1,baseAddress);}
- B. String baseAddress="http: //localhost:8000/ExamService/service";BasicHttpBinding binding1=new BasicHttpBinding();using(ServiceHost host=new ServiceHost(typeof(ExamService)))
 host.AddServiceEndpoint(typeof(IExam),binding1,baseAddress);}
- C. String baseAddress="http: //localhost:8000/ExamService";WsHttpBinding binding1=new WsHttpBinding();using(ServiceHost host=new ServiceHost(typeof(ExamService)))
 host.AddServiceEndpoint(typeof(IExam),binding1,baseAddress);}
- D. String baseAddress="net.tcp: //localhost:8000/ExamService/service";NetTcpBinding binding1=new NetTcpBinding();using(ServiceHost host=new ServiceHost(typeof(ExamService)))
 host.AddServiceEndpoint(typeof(IExam),binding1,baseAddress);}

Answer: B

Question: 8

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5.

You write the following code fragment in the service configuration file. (Line numbers are included for reference only.) 01 <system.serviceModel> 02 ... 03 <behaviors> 04 <serviceBehaviors> 05 <behavior name="CalculatorServiceBehavior"> 06 <CustomServiceBehavior/> 07 </behavior> 08 </serviceBehaviors> 09 </behaviors>

11 </system.serviceModel>

You need to register the custom service behavior in the service configuration file. Which code fragment should you insert at line 10?

- A. <behaviorExtensions> <add name="CustomServiceBehavior" type="CustomBehavior.CustomServiceBehaviorSection, CustomBehavior, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" /></behaviorExtensions>
- B. <extensions> <add name="CustomServiceBehavior" type="CustomBehavior.CustomServiceBehaviorSection, CustomBehavior, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" /></extensions>
- C. <behaviorExtensions> <extensions> <add name="CustomServiceBehavior" type="CustomBehavior.CustomServiceBehaviorSection, CustomBehavior, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" /> </extensions> </behaviorExtensions>
- D. <extensions> <behaviorExtensions> <add name="CustomServiceBehavior" type="CustomBehavior.CustomServiceBehaviorSection, CustomBehavior, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" /> </behaviorExtensions></extensions>

Answer: D

Question: 9

You are creating an application in Windows Communication Foundation (WCF) by using Microsoft.NET Framework 3.5. You need to ensure that the client application communicates with the service by using a duplex contract. Which five actions should you perform? (To answer, move the five appropriate actions from the list of actions to the answer area, and arrange them in the correct order.)

Actions	Answer Area
Create an interface in the WCF service for the service itself.	
Create two interfaces in the WCF service—one for a callback interface and another for the service itself.	
Run the WCF service and use the Svcutil.exe application to generate proxies for the client.	
Implement the callback interface on the callback class.	
Create an instance of the callback class and pass it as a constructor parameter to the InstanceContext object. Pass the InstanceContext object as a constructor parameter to the client proxy.	
Create an instance of the client and use the default endpoint configuration as the parameter.	
Implement the service interface on the service class.	

Answer:

Actions	Answer Area
Create an interface in the WCF service for the service itself.	
Create two interfaces in the WCF service—one for a callback interface and another for the service itself.	Create two interfaces in the WCF service—one for a callback interface and another for the service itself.
Run the WCF service and use the Svcutil.exe application to generate proxies for the client.	
Implement the callback interface on the callback class.	Implement the service interface on the service class.
Create an instance of the callback class and pass it as a constructor parameter to the InstanceContext object. Pass the InstanceContext object as a constructor parameter to the client proxy.	
Create an instance of the client and use the default endpoint configuration as the parameter.	Run the WCF service and use the Svcutil.exe application to generate proxies for the client.
Implement the service interface on the service class.	Implement the callback interface on the callback class.
	Create an instance of the callback class and pass it as a constructor parameter to the InstanceContext object. Pass the InstanceContext object as a constructor parameter to the client proxy.

Question: 10

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a Console application. You need to configure the service by using a configuration file other than the default app.config file. Which code segment should you use?

- A. `class MyServiceHost : ServiceHost{ public MyServiceHost(Type serviceType, params Uri[] baseAddresses) : base(serviceType, baseAddresses) { } protected override void InitializeRuntime() { //Load configuration here }}`
- B. `class MyServiceHost : ServiceHost{ public MyServiceHost(Type serviceType, params Uri[] baseAddresses) : base(serviceType, baseAddresses) { } protected override void ApplyConfiguration() { //Load configuration here }}`
- C. `class MyServiceHost : ServiceHost{ public MyServiceHost(Type serviceType, params Uri[] baseAddresses) : base(serviceType, baseAddresses) { } protected new void InitializeDescription(Type serviceType, UriSchemeKeyedCollection baseAddresses) { //Load configuration here. }}`
- D. `class MyServiceHost : ServiceHost{ public MyServiceHost(Type serviceType, params Uri[] baseAddresses) : base(serviceType, baseAddresses) { } protected new void AddBaseAddress(Uri`

```
baseAddress) { //Load configuration here. }}
```

Answer: B

Question: 11

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service contains the following binding configuration in the configuration file. (Line numbers are included for reference only.) 01 <wsHttpBinding> 02 <binding name="ssl"> 03 04 </binding> 05 </wsHttpBinding> You need to ensure that the following requirements are met: The service must use transport-level security (SSL via HTTPS). The service must use message-level security to authenticate client applications by using user name and password. Which configuration setting should you insert at line 03?

- A. <security mode="Message"> <message clientCredentialType="UserName"/></security>
- B. <security mode="TransportWithMessageCredential"> <message clientCredentialType="UserName"/></security>
- C. <security mode="Transport"> <transport clientCredentialType="Windows"/> <message clientCredentialType="UserName"/></security>
- D. <security mode="Message" > <transport clientCredentialType="Windows" /> <message clientCredentialType="UserName" /></security>

Answer: B

Question: 12

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The service will authenticate the client applications by using Personal Information Cards. You write the following code segment. (Line numbers are included for reference only.)

```
01 public class CustomServiceAuthorizationManager : 02
ServiceAuthorizationManager { 03 protected override bool
CheckAccessCore(OperationContext 04 operationContext) 05 { 06
string action= 07
operationContext.RequestContext.RequestMessage. 08
Headers.Action; 09 if (action ==
"http://tempuri.org/IEngine/Update") 10 { 11 foreach (ClaimSet cs in
12 operationContext.ServiceSecurityContext.AuthorizationContext.
13 ClaimSets) 14 { 15 16 } 17 return false; 18 }
```

```
19 return true; 20 } 21 bool  
IsEmailValid(string email) 22 { 23 //e-  
mail validation is performed here; 24  
return true; 25 }
```

You need to ensure that only those client applications that provide a valid e-mail address can execute the Update method. Which code segment should you insert at line 15?

- A. `foreach (Claim c in cs.FindClaims("http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress", "PossessProperty")) return IsEmailValid(c.Resource.ToString());`
- B. `foreach (Claim c in cs.FindClaims("http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress", string.Empty)) return IsEmailValid(c.Resource.ToString());`
- C. `foreach (Claim c in cs.FindClaims("http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress", Rights.PossessProperty)) return IsEmailValid(c.Resource.ToString());`
- D. `foreach (Claim c in cs.FindClaims("http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress", Rights.Identity)) return IsEmailValid(c.Resource.ToString());`

Answer: C

Question: 13

You are creating a distributed application by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation to create the application. You plan to perform the following tasks: Authenticate the client applications by using Microsoft ASP.NET membership provider. Authorize the client applications by using Microsoft ASP.NET role provider. You write the following code segment. [ServiceContract] public interface IService { [OperationContract] void Remove(int id); } public class Service : IService { public void Remove(int id) { } } You need to ensure that only those client applications that provide credentials belonging to the AdminGroup role can access the Remove method. What should you do?

- A. Add the following attribute to the Remove method of the Service class. [PrincipalPermission(SecurityAction.Demand, Role="AdminGroup")]
- B. Add the following attribute to the Remove method of the IService interface. [PrincipalPermission(SecurityAction.Demand, Role="AdminGroup")]
- C. Add the following attribute to the Service class. [PrincipalPermission(SecurityAction.Demand, Name="Remove", Role="AdminGroup")]
- D. Add the following attribute to the Service class. [PrincipalPermission(SecurityAction.Demand,

Name="IService.Remove", Role="AdminGroup"]]

Answer: A

Question: 14

You are creating a client application by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation (WCF) to create the application. The client application uses a Personal Information Card to provide authentication information to the WCF server. You write the following code fragment. (Line numbers are included for reference only.)

```
01 <wsFederationHttpBinding> 02
<binding name="requireCardSpace">
03 <security mode="Message"> 04
<message > 05 06 </message> 07
</security> 08 </binding> 09
</wsFederationHttpBinding>
```

You need to ensure that one of the claims in the Personal Information Card contains an e-mail address. Which code fragment should you insert at line 05?

- A. <claimTypeRequirements> <add claimType="http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress" isOptional="false"/></claimTypeRequirements><issuer address="http: //schemas.xmlsoap.org/ws/2005/05/identity/issuer/personal"/>
- B. <claimTypeRequirements> <add claimType="http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress"/></claimTypeRequirements><issuer address="http: //schemas.xmlsoap.org/ws/2005/05/identity/issuer/personal"/>
- C. <claimTypeRequirements> <add claimType="http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress"/></claimTypeRequirements><issuer address="http: //schemas.xmlsoap.org/ws/2005/05/identity/issuer/managed"/>
- D. <claimTypeRequirements> <add claimType="http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress" isOptional="false"/></claimTypeRequirements><issuer address="http: //schemas.xmlsoap.org/ws/2005/05/identity/issuer/self"/>

Answer: D

Question: 15

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The client applications are unable to use SSL. You need to ensure that clients authenticate by using a token provided by a Security Token Service (STS). What should you do?

- A. Use a BasicHttpBinding binding with the security mode set to Message.
- B. Use a BasicHttpBinding binding with the security mode set to TransportWithMessageCredential.
- C. Use a WSFederationHttpBinding binding with the security mode set to Message.
- D. Use a WSFederationHttpBinding binding with the security mode set to TransportWithMessageCredential.

Answer: C

Question: 16

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code fragment for the configuration setting. (Line numbers are included for reference only.)

```
01 <wsHttpBinding> 02 <binding name="simple"> 03 04 </binding> 05 </wsHttpBinding>
```

You need to ensure that the service uses transport security and allows access to anonymous client applications. Which code fragment should you insert at line 03?

- A. `<security mode="Transport" > <transport clientCredentialType="Basic" /></security>`
- B. `<security mode="Transport" > <message clientCredentialType="None"/></security>`
- C. `<security mode="Transport" > <message clientCredentialType="Certificate"/></security>`
- D. `<security mode="Transport" > <transport clientCredentialType="None" /></security>`

Answer: D

Question: 17

You are creating a distributed application by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation (WCF) to create the application. The operations provided by the WCF server use the remote resources of other computers. These methods use the credentials provided by the client applications. You need to ensure that the WCF server can impersonate the client applications to access the remote resources. Which client application settings should you use?

- A. `<windows allowedImpersonationLevel="Delegation"/>`
- B. `<windows allowedImpersonationLevel="Impersonation"/>`
- C. `<windows allowedImpersonationLevel="Identification"/>`
- D. `<windows allowedImpersonationLevel="Impersonation" allowNtlm="false"/>`

Answer: A

Question: 18

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment.

```
01 [ServiceContract] 02 public interface IMyService 03 {  
04 [OperationContract] 05 void MyMethod(); 06 } 07 08  
public class ServiceImpl:IMyService 09 { 10  
[OperationBehavior(TransactionScopeRequired=true)]
```

11 public void MyMethod() { } 12 } You need to ensure that concurrent calls are allowed on the service instance. Which code segment should you insert at line 07?

- A. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Multiple, ReleaseServiceInstanceOnTransactionComplete=true)]
- B. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Multiple, ReleaseServiceInstanceOnTransactionComplete=false)]
- C. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Reentrant, ReleaseServiceInstanceOnTransactionComplete=true)]
- D. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Reentrant, ReleaseServiceInstanceOnTransactionComplete=false)]

Answer: B

Question: 19

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You create the following service contract. [ServiceContract] public interface IMyService { [OperationContract] void DoSomething(); } The service will not use any external resources. You need to ensure that the calls to the DoSomething operation are thread-safe. What are the two possible service implementations that you can use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Multiple, InstanceContextMode=InstanceContextMode.Single)]public class ServiceImpl : IMyService{ public void DoSomething() { }}
- B. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Single, InstanceContextMode=InstanceContextMode.Single)]public class ServiceImpl : IMyService{ public void DoSomething() { }}
- C. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Multiple, InstanceContextMode=InstanceContextMode.PerSession)]public class ServiceImpl : IMyService{ public void DoSomething() { }}
- D. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Multiple, InstanceContextMode=InstanceContextMode.PerCall)]public class ServiceImpl : IMyService{ public void DoSomething() { }}

Answer: B, D

Question: 20

You create a stateless, thread-safe service by using Microsoft .NET Framework 3.5. You use the Windows Communication Foundation model to create the service. Load testing reveals that the service does not scale above 1,000 concurrent users. You discover that each call to the service

instantiates a new service instance. You also discover that these service instances are expensive to create. You need to ensure that 5,000 concurrent users can access the service. Which code segment should you use?

- A. [ServiceBehavior(InstanceContextMode=InstanceContextMode.PerCall, ConcurrencyMode=ConcurrencyMode.Reentrant)]
- B. [ServiceBehavior(InstanceContextMode=InstanceContextMode.Single, ConcurrencyMode=ConcurrencyMode.Multiple)]
- C. [ServiceBehavior(InstanceContextMode=InstanceContextMode.PerCall, ConcurrencyMode=ConcurrencyMode.Multiple)]
- D. [ServiceBehavior(InstanceContextMode=InstanceContextMode.Single, ConcurrencyMode=ConcurrencyMode.Reentrant)]

Answer: B

Question: 21

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You create the following service definition.

```
[ServiceContract(SessionMode=SessionMode.Required)] public interface IMyService { ... } You need to custom manage the lifetime of the session. Which service implementation should you use?
```

- A. [ServiceBehavior(AutomaticSessionShutdown=true)]public class ServiceImpl{ ...}
- B. [ServiceBehavior(AutomaticSessionShutdown=false)]public class ServiceImpl{ ...}
- C. [ServiceBehavior(UseSynchronizationContext=true)]public class ServiceImpl{ ...}
- D. [ServiceBehavior(UseSynchronizationContext=false)]public class ServiceImpl{ ...}

Answer: B

Question: 22

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code

```
segment. 01 [ServiceContract] 02 public  
interface IMyService 03 { 04  
[OperationContract] 05 void  
MyMethod(); 06 } 07 public class  
SeviceImpl : IMyService 08 {
```

```
10 public void MyMethod() { }  
11 }
```

You need to ensure that when the MyMethod method is called, the service is the root of a transaction. Which code segment should you insert at line 09?

- A.
[OperationBehavior(TransactionScopeRequired=true)][TransactionFlow(TransactionFlowOption.Allowed)]
- B.
[OperationBehavior(TransactionScopeRequired=true)][TransactionFlow(TransactionFlowOption.NotAllowed)]
- C.
[OperationBehavior(TransactionScopeRequired=false)][TransactionFlow(TransactionFlowOption.Mandatory)]
- D.
[OperationBehavior(TransactionScopeRequired=false)][TransactionFlow(TransactionFlowOption.NotAllowed)]

Answer: B

Question: 23

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment for the service contract. (Line numbers are included for reference only.)

```
01 [ServiceContract] 02 03 public class MyService 04 { 05 ... 06 }
The service uses transactions that time out in a minute. You need to increase the timeout interval of the transactions to 2 minutes and 30 seconds. Which code segment should you insert at line 02?
```

- A. [ServiceBehavior(TransactionTimeout="150")]
- B. [ServiceBehavior(TransactionTimeout="0:2:30")]
- C. [ServiceBehavior(TransactionTimeout="2:30:00")]
- D. [ServiceBehavior(TransactionTimeout="0:150:00")]

Answer: B

Question: 24

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You configure a binding to enable streaming. You need to ensure that the client application is able to stream large XML files to the WCF service. Which operation contract should you create?

- A. [OperationContract]void UploadFile(Stream xmlData);
- B. [OperationContract]void UploadFile(XmlWriter xmlData);
- C. [OperationContract]void UploadFile(StreamWriter xmlData);
- D. [OperationContract]void UploadFile(byte[] xmlData);

Answer: A

Question: 25

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5.

You write the following code segment for the service implementation. (Line numbers are included for reference only.)

01 public void PutMessage(Message msg) 02 { 03 string value=null; 04 05 } You need to retrieve the content from the received message body and store it in the variable named value. Which code segment should you insert at line 04?

- A. value=msg.GetBody<string>();
- B. string ns=msg.Headers.GetHeader<string>(0);value=msg.GetBodyAttribute("Body", ns);
- C. XmlReader reader=msg.GetBody<XmlReader>();value=reader.ReadOuterXml();
- D. XmlReader reader=msg.GetReaderAtBodyContents();value=reader.ReadOuterXml();

Answer: D

Question: 26

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment. (Line numbers are included for reference only.)

01 [ServiceContract(Namespace="http://uri.contoso.com")] 02 public interface IMyService 03 { 04 [OperationContract] 05 string ProcessDetails(string s); 06 [OperationContract(Action="UpdateStatus")] 07 void UpdateStatus(); 08 09 } If the existing operation contract is unable to process a request made to the service, a generic operation contract must attempt to process the request. You need to create the generic operation contract. Which code segment should you insert at line 08?

- A. [OperationContract(Action="*")]void ProcessOthers(Message msg);
- B. [OperationContract(Action="*")]void ProcessOthers();
- C. [OperationContract(Action="Default")]void ProcessOthers(Message msg);
- D. [OperationContract(Action="Default")]void ProcessOthers();

Answer: A

Question: 27

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service contains the following code segment. [ServiceContract] public interface IMyService { [OperationContract(IsOneWay=true, ProtectionLevel=ProtectionLevel.None)]

[TransactionFlow(TransactionFlowOption.Allowed)] void DoSomething(); } You need to ensure that the DoSomething operation can participate in transactions. Which code segment should you use to replace the existing operation contract?

A.

```
[OperationContract(ProtectionLevel=ProtectionLevel.None)][TransactionFlow(TransactionFlowOption.Allowed)]void DoSomething();
```

B. [OperationContract(ProtectionLevel=

```
ProtectionLevel.EncryptAndSign)][TransactionFlow(TransactionFlowOption.NotAllowed)]void DoSomething();
```

C. [OperationContract(IsOneWay=true,

```
ProtectionLevel=ProtectionLevel.EncryptAndSign)][TransactionFlow(TransactionFlowOption.Allowed)]void DoSomething();
```

D. [OperationContract(IsOneWay=true,

```
ProtectionLevel=ProtectionLevel.Sign)][TransactionFlow(TransactionFlowOption.Mandatory)]void DoSomething();
```

Answer: A

Question: 28

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You have successfully defined a service contract named `IManageOrders`. You write the following code segment.

```
public class OrderImpl : IManageOrders { public void MarkOrderClosed(int orderId){ try { ... } catch (SqlException exc){ throw new FaultException<DataFault>(new DataFault()); } } }  
[DataContract] public class DataFault { }  
You need to create a fault contract for the MarkOrderClosed method on the IManageOrders service contract. Which code segment should you add?
```

A. [FaultContract(typeof(DataFault))]

B. [FaultContract(typeof(Exception))]

C. [FaultContract(typeof(SqlException))]

D. [FaultContract(typeof(FaultException))]

Answer: A

Question: 29

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to ensure that the service can send data in the following format to the client applications. <Account Id=""> <Name> </Name> <Balance Currency=""> </Balance> </Account> Which code segment should you use?

- A. [Serializable]public class Account{ [XmlAttribute] public string Id; [XmlElement] public string Name; [XmlAttribute] public string Currency; [XmlElement] public double Balance;}
- B. [DataContract]public class Account{ [DataMember(Order=0)] public string Id; [DataMember(Order=1)] public string Name; [DataMember(Order=0)] public double Balance; [DataMember(Order=1)] public string Currency;}
- C. [Serializable]public class Account{ [XmlAttribute] public string Id; public string Name; [XmlElement("Balance")] public BalanceVal Balance;}[Serializable]public class BalanceVal{ [XmlText] public double Amount; [XmlAttribute] public string Currency;}
- D. [DataContract]public class Account{ [DataMember(Order=0)] public string Id; [DataMember(Order=1)] public string Name; [DataMember(Name="Balance", Order=2)] public BalanceVal Balance;}[DataContract]public struct BalanceVal{ [DataMember(Order=0)] public double Balance; [DataMember(Order=1)] public string Currency;}

Answer: C

Question: 30

You create a Windows Communication Foundation client application by using Microsoft .NET Framework 3.5. The client application communicates with an existing Web service that requires custom HTTP headers. You need to ensure that all messages sent to the service include the headers. Which two tasks should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create a message inspector. Insert the custom headers by using the `IClientMessageInspector.AfterReceiveReply` method.
- B. Create a message inspector. Insert the custom headers by using the `IClientMessageInspector.BeforeSendRequest` method.
- C. Create a custom endpoint behavior. Add the message inspector by using the `IEndpointBehavior.ApplyClientBehavior` method.
- D. Create a custom endpoint behavior. Add the message inspector by using the `IEndpointBehavior.AddBindingParameters` method.

Answer: B, C

Question: 31

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service contains two operations named `ProcessSimpleOrder` and `ProcessComplexOrder`. You need to expose the `ProcessSimpleOrder` operation to all the client applications. You also need to expose the `ProcessComplexOrder` operation only to specific client applications. Which code segment should you use?

- A. [ServiceContract]public interface IOrderManager{ [OperationContract(Action="")] void ProcessSimpleOrder(); [OperationContract] void ProcessComplexOrder();}
- B. [ServiceContract]public interface IOrderManager{ [OperationContract(Name="http:

```
//contoso.com/Simple")] void ProcessSimpleOrder(); [OperationContract(Name="http://contoso.com/Complex")] void ProcessComplexOrder();}
```

C. [ServiceContract]public interface ISimpleOrderManager{ [OperationContract] void ProcessSimpleOrder();}[ServiceContract]public interface IComplexOrderManager: ISimpleOrderManager{ [OperationContract] void ProcessComplexOrder();}

D. [ServiceContract]public interface ISimpleOrderManager{ [OperationContract(Name="http://contoso.com/Simple")] void ProcessSimpleOrder();}public interface IComplexOrderManager: ISimpleOrderManager{ [OperationContract(Name="http://contoso.com/Complex")] void ProcessComplexOrder();}

Answer: C

Question: 32

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You want to enable message logging.

You add the following code fragment to the service configuration file.

```
<system.diagnostics> <sources> <source  
name="System.ServiceModel.MessageLogging">  
<listeners> <add name="messages"  
type="System.Diagnostics.XmlWriterTraceListener" />  
</listeners> </source> </sources> </system.diagnostics>
```

You receive an exception.

You need to successfully enable message logging.
What should you do?

- A. Remove the message filter.
- B. Set the switchValue attribute to verbose.
- C. Set the initializeData attribute to the name of a log file.
- D. Set the maximum size of the message to be logged to 256K.

Answer: C

Question: 33

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. Client applications that run on different platforms access the WCF service. These applications transmit confidential data to the WCF service. You write the following binding configuration <binding name="TransportSecurity" > <security mode="Transport" /> </binding> ... You need to configure the service for optimum interoperability and optimum security. Which code fragment should you use?

A. <service name="AdventureWorks.Travel.ReservationService"> <endpoint address="" binding="wsHttpBinding" contract="AdventureWorks.Travel.IReservationService"/> <host> <baseAddresses> <add baseAddress="http: //localhost:80/Service/" /> </baseAddresses> </host></service>

B. <service name="AdventureWorks.Travel.ReservationService"> <endpoint address="" binding="basicHttpBinding" contract="AdventureWorks.Travel.IReservationService"/> <host> <baseAddresses> <add baseAddress="http: //localhost:80/Service/" /> </baseAddresses> </host></service>

C. <service name="AdventureWorks.Travel.ReservationService"> <endpoint address="" binding="basicHttpBinding" bindingConfiguration="TransportSecurity" contract="AdventureWorks.Travel.IReservationService"/> <host> <baseAddresses> <add baseAddress="https: //localhost:443/Service/" /> </baseAddresses> </host></service>

D. <service name="AdventureWorks.Travel.ReservationService"> <endpoint address="" binding="wsHttpBinding" bindingConfiguration="TransportSecurity" contract="AdventureWorks.Travel.IReservationService"/> <host> <baseAddresses> <add baseAddress="https: //localhost:443/Service/" /> </baseAddresses> </host></service>

Answer: C

Question: 34

You create a service by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation to create the service. You use the WSHttpBinding binding to prevent tampering of the data. Users report that the data is unreadable. You need to troubleshoot the problem by logging the incoming messages. Which code fragment should you use?

A. <system.serviceModel> <diagnostics> <messageLogging logEntireMessage="true" logMessagesAtTransportLevel="true"/> </diagnostics></system.serviceModel>

B. <system.serviceModel> <diagnostics> <messageLogging logEntireMessage="true" logMessagesAtServiceLevel="true"/> </diagnostics></system.serviceModel>

C. <system.serviceModel> <diagnostics> <messageLogging logEntireMessage="true" logMalformedMessages="true"/> </diagnostics></system.serviceModel>

D. <system.serviceModel> <diagnostics> <messageLogging logMessagesAtServiceLevel="true" logMessagesAtTransportLevel="true"/> </diagnostics></system.serviceModel>

Answer: B

Question: 35

You create a client application by using Microsoft .NET Framework 3.5. The client application uses a Windows Communication Foundation (WCF) service. You plan to implement inspection handling on the client application and the WCF service. You need to add error handling to the WCF service. What should you do?

- A. Modify the BeforeSendReply method to catch the ReplyValidationFault exception. Replace the reply message with an explicit fault message.
- B. Modify the BeforeSendRequest method to catch the ReplyValidationFault exception. Replace the reply message with an explicit fault message.
- C. Modify the AfterReceiveRequest method to catch the ReplyValidationFault exception. Replace the reply message with an explicit fault message.
- D. Modify the AfterReceiveReply method to catch the ReplyValidationFault exception. Replace the reply message with an explicit fault message.

Answer: A

Question: 36

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You set up tracing for the service. The tracing fails because of an error in the service configuration. You need to identify the cause of the error. What should you do?

- A. Examine the system event log.
- B. Examine the security event log.
- C. Examine the application event log.
- D. Set the enableLogKnownPii attribute to true in the machine.config file.

Answer: C

Question: 37

You are creating a client application by using Microsoft .NET Framework 3.5. The client application uses a Windows Communication Foundation service. To log the called service proxy methods and their parameters, you implement custom endpoint behavior in the following class. class ParametersLoggerBehavior : IEndpointBehavior { } You also create the following class for the custom behavior. class LoggerElement : BehaviorExtensionElement { } You add the following configuration code fragment to the application configuration file. (Line numbers are included for reference only.)

```
01 <behaviors> 02 <endpointBehaviors> 03 04
</endpointBehaviors> 05 </behaviors> 06 <extensions> 07
<behaviorExtensions> 08 <add name="debugBehavior"
type="Client.LoggerElement, 09 ClientApp, Version=1.0.0.0,
Culture=neutral, 10 PublicKeyToken=null"/> 11
</behaviorExtensions> 12 </extensions>
```

You need to ensure that the endpoint uses the custom behavior. Which configuration settings should you insert at line 03?

- A. <debugBehavior name="debug" />
- B. <behavior name="debug"> <debugBehavior /></behavior>
- C. <behavior name="debug"> <ParametersLoggerBehavior /></behavior>
- D. <ParametersLoggerBehavior name="debug"> <debugBehavior /></ParametersLoggerBehavior>

Answer: B

Question: 38

You are creating a Windows Communication Foundation (WCF) client application by using Microsoft .NET Framework 3.5. The WCF service transfers data to the client applications by using

the streaming transfer mode. You need to create an endpoint that supports the streaming transfer mode. Which binding should you use?

- A. wsHttpBinding
- B. basicHttpBinding
- C. webHttpBinding
- D. wsFederationHttpBinding

Answer: B

Question: 39

You are creating a Windows Communication Foundation client application by using Microsoft .NET Framework 3.5. The client application consumes the Web Services Enhancements (WSE) 3.0 Web service. The Web service uses standard WSE 3.0 to transfer binary data to the client application. The client application uses the following binding configuration. (Line numbers are included for reference only.)

```
01 <customBinding> 02 <binding name="custom" > 03 04 <httpTransport  
maxBufferSize="700000" 04 maxReceivedMessageSize="700000" /> 05 </binding> 06  
</customBinding>
```

You need to ensure that the client application receives binary data from the WSE 3.0 Web service. Which code fragment should you insert at line 03?

- A. <binaryMessageEncoding maxReadPoolSize="700000" />
- B. <binaryMessageEncoding > <readerQuotas maxBytesPerRead="700000" /></binaryMessageEncoding>
- C. <binaryMessageEncoding > <readerQuotas maxArrayLength="700000"/></binaryMessageEncoding>
- D. <mtomMessageEncoding messageVersion="Soap12WSAddressingAugust2004"> <readerQuotas maxArrayLength="700000"/></mtomMessageEncoding>

Answer: D

Question: 40

You are creating a Windows Communication Foundation client application by using Microsoft .NET Framework 3.5. You add the following code segment to a service contract.

```
[ServiceContract] interface IDocumentService { [OperationContract] int DeleteDocument(int id); }
```

The DeleteDocument method in the service contract takes a long time to execute. The client application stops responding until the method finishes execution. You write the following code segment to create an instance of a service proxy in the client application.

(Line numbers are included for reference only.)

```
01 static void Main() 02 { 03 DocumentServiceClient client=
04 new DocumentServiceClient(); 05 06 } 07 static void
ProcessDeleteDocument(IAsyncResult result) 08 { 09 10 }
```

You need to ensure that the service methods are called asynchronously.
What should you do?

A. Insert the following code segment at line 05. `client.BeginDeleteDocument(20, ProcessDeleteDocument, client);` Insert the following code segment at line 09. `int count=(result.AsyncState as DocumentServiceClient).EndDeleteDocument(null);`

B. Insert the following code segment at line 05. `client.BeginDeleteDocument(20, ProcessDeleteDocument, client);` Insert the following code segment at line 09. `result.AsyncWaitHandle.WaitOne();int count=(result as DocumentServiceClient).EndDeleteDocument(result);`

C. Insert the following code segment at line 05. `client.BeginDeleteDocument(20, ProcessDeleteDocument, client);` Insert the following code segment at line 09. `int count=(result.AsyncState as DocumentServiceClient).EndDeleteDocument(result);`

D. Insert the following code segment at line 05. `IAsyncResult result= client.BeginDeleteDocument(20, ProcessDeleteDocument, client);int count=client.EndDeleteDocument(result);` Insert the following code segment at line 09. `result.AsyncWaitHandle.WaitOne();`

Answer: C

Question: 41

You are creating a Windows Communication Foundation application by using Microsoft .NET Framework 3.5. The application must consume an ATOM 1.0 feed published at <http://localhost:8000/BlogService/GetBlog>. You write the following code segment. (Line numbers are included for reference only.)

```
01 Uri address = new 02
Uri("http://localhost:8000/BlogService/GetBlog"); 03
04 Console.WriteLine(feed.Title.Text);
```

You need to ensure that the application prints the title of the feed.
Which code segment should you insert at the line 03?

A. `SyndicationFeed feed = SyndicationFeed.Load(address);`

B. `SyndicationFeed feed = new SyndicationFeed();feed.BaseUri = address;`

C. SyndicationItem item = SyndicationItem.Load(address);SyndicationFeed feed = new SyndicationFeed();feed.Items = new SyndicationItem[] { item };

D. SyndicationItem item = new SyndicationItem();item.BaseUri = address;SyndicationFeed feed = new SyndicationFeed();feed.Items = new SyndicationItem[] { item };

Answer: A

Question: 42

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You add the following code segment to the service. public interface ICalulatorService { [OperationContract] [FaultContract(typeof(ArithmeticException))] double Divide(double number1, double number2); [OperationContract] void DisposeCalculator(); } [ServiceBehavior(IncludeExceptionDetailInFaults=true)] public class CalculatorService : ICalulatorService { public double Divide(double number1, double number2) { if (number2 == 0) throw new DivideByZeroException(); return (number1 / number2); } public void DisposeCalculator() { // release resources. ... } } You add the following code segment to the client application.

```
01 public double PerformCalculations(double num1, double
num2) 02 { 03 04 }
```

You need to ensure that the DisposeCalculator operation is always called. Which code segment should you insert at line 03?

- A. CalculatorClient proxy=new CalculatorClient();int result=-1;try { result=proxy.Divide(number1, number2);}catch (DivideByZeroException dzEx) {proxy.DisposeCalculator();return result;
- B. CalculatorClient proxy=new CalculatorClient();int result=-1;try { result=proxy.Divide(number1, number2);}catch (DivideByZeroException dzEx) { proxy.Close(); proxy=new CalculatorClient();proxy.DisposeCalculator();return result;
- C. CalculatorClient proxy=new CalculatorClient();int result=-1;try { result = proxy.Divide(number1, number2);}catch (FaultException dzEx) { proxy.DisposeCalculator();return result;
- D. CalculatorClient proxy=new CalculatorClient();int result=-1;try { result=proxy.Divide(number1, number2);}catch (FaultException dzEx) { proxy.Close(); proxy=new

```
CalculatorClient();}proxy.DisposeCalculator();return result;
```

Answer: D

Question: 43

You are creating a client application that will call a Windows Communication Foundation service. The service was created by using Microsoft .NET Framework 3.5. You write the following code segment.

```
[DataContract] public class CreditCard { [DataMember] public string Name { get; set; }  
[DataMember] public string CardNumber { get { return cardNumber; } set { if  
(!IsValidCreditCardNumber(value)) { throw new ArgumentException("Invalid credit card number");  
} cardNumber = value; } } } You plan to share the validation logic between the client application  
and the WCF service. You need to generate a client-side service proxy that includes the validation  
logic. Which four tasks should you perform? (Each correct answer presents part of the solution.  
Choose four.)
```

- A. Create a Class Library project for the DataContract classes.
- B. In the Service project, add a reference to the Class Library project.
- C. In the Client project, add a reference to the Class Library project.
- D. In the Client project, use the Add Web Reference dialog box to reference the service.
- E. In the Client project, use the Add Service Reference dialog box to reference the service.
- F. In the Client project, use the Add Reference dialog box to add a project reference to the Service project.

Answer: A, B, C, E

Question: 44

You are creating a client application by using Microsoft .NET Framework 3.5. The client application will consume a COM+ application by using the Windows Communication Foundation service. You write the following code segment to implement the COM+ application. [Guid("InterfaceGuidIsHere")] public interface IDocumentStore { bool IsDocumentExist(long id); } [Guid("ClassGuidIsHere")] public class DocumentStore: ServicedComponent, IDocumentStore

{ public bool IsDocumentExist(long id) { //This code checks if document exists. } } The application ID of the COM+ application is {AppGuidIsHere}. You need to configure the WCF service to access the COM+ application from the WCF client application. Which code fragment should you use?

- A. <services> <service name="{AppGuidIsHere},{ClassGuidIsHere}"> <endpoint binding="wsHttpBinding" contract="IDocumentStore"/> </service></services>
- B. <services> <service name="{AppGuidIsHere},{ClassGuidIsHere}"> <endpoint binding="wsHttpBinding" contract="{InterfaceGuidIsHere}"/> </service></services>
- C. <services> <service name="{AppGuidIsHere},{ClassGuidIsHere}"> <endpoint binding="wsHttpBinding" contract="DocumentStorage.IDocumentStore"/> </service></services>
- D. <services> <service name="{AppGuidIsHere}"> <endpoint binding="wsHttpBinding" contract="{InterfaceGuidIsHere}"/> </service></services>

Answer: B

Question: 45

You create a client application by using Microsoft .NET Framework 3.5. The client application consumes a Windows Communication Foundation service that uses the netMsmqBinding binding. The binding uses a private transactional queue named Library. The following code fragment is part of the application configuration file. (Line numbers are included for reference only.)

```
01 <endpoint binding="netMsmqBinding"
02 contract="ServiceReference.ILibrary"
03 04 />
```

You need to specify the address of the endpoint.
Which attribute should you insert at line 03?

- A. address=".\\private\$\\Library"
- B. address="net.msmq://.\\private\$\\Library"
- C. address="net.msmq://localhost/private/Library"
- D. address="net.msmq://localhost/private/transactional/Library"

Answer: C

Question: 46

You create a Windows Communication Foundation (WCF) application by using Microsoft .NET Framework 3.5. The desktop client calls the WCF service to query its status. The call can take up to 10 seconds to complete. The client application must remain responsive when querying the service. You need to generate the required proxy. What should you do?

- A. Execute the svcutil http: //localhost:8000/MyWCF /async command.
- B. Execute the svcutil myServiceHost.exe /serviceName:MyWCF command.
- C. Execute the svcutil /validate /serviceName:MyWCF myServiceHost.exe command.

D. Clear the Generate asynchronous operation check box in the Add Service Reference Settings dialog box.

Answer: A

Question: 47

You are creating a Windows Communication Foundation (WCF) client application by using Microsoft .NET Framework 3.5. The proxy generated for the WCF service results in the following code segment. [ServiceContract(CallbackContract=typeof(IStoreCallback))] public interface IStore { [OperationContract(IsOneWay=true)] void CheckAvailableProducts(); } public interface IStoreCallback { } To implement a callback interface, you create the following class in the client application. public class StoreCallback: IStoreCallback { } The client application receives notifications from the service through the callback interface. You write the following code segment for the client application to use the generated proxy. (Line numbers are included for reference only.) 01 02 client.CheckAvailableProducts(); You need to set up duplex communication between the client application and the WCF service. Which code segment should you insert at line 01?

- A. StoreClient client=new StoreClient(new InstanceContext(typeof(StoreCallback)));
- B. StoreClient client= new StoreClient(OperationContext.Current.InstanceContext);
- C. StoreClient client=new StoreClient(new InstanceContext(new StoreCallback()));
- D. IStoreCallback callback= OperationContext.Current.GetCallbackChannel<ServiceReference.IStoreCallback>();InstanceContext context=new InstanceContext(callback);StoreClient client= new ServiceReference.StoreClient(context);

Answer: C

Question: 48

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service must authenticate the client applications by validating credit card numbers and expiry dates. You write the following code segment. (Line numbers are included for reference only.)

```
01 class CreditCardTokenAuthenticator :  
SecurityTokenAuthenticator 02 { 03 // Implementation of other  
abstract methods comes here. 04 protected override 05  
ReadOnlyCollection<IAuthorizationPolicy> 06  
ValidateTokenCore(SecurityToken token) 07 {
```

```

08 CreditCardToken creditCardToken =
09 token as CreditCardToken;

11 } 12 private bool IsCardValid(string
cardNumber, 13 DateTime expirationDate ) 14
{ 15 // Validation code comes here. 16 } 17 }

```

You need to implement custom authentication for the WCF service.
Which code segment should you insert at line 10?

- A. if (IsCardValid(creditCardToken.CardNumber, creditCardToken.ValidTo)) return null;else throw new SecurityTokenValidationException();
- B. if (IsCardValid(creditCardToken.CardNumber, creditCardToken.ValidTo)) throw new SecurityTokenValidationException();else return null;
- C. if (IsCardValid(creditCardToken.CardNumber, creditCardToken.ValidTo)) return null;else return new List<IAuthorizationPolicy>(0).AsReadOnly();
- D. if (IsCardValid(creditCardToken.CardNumber, creditCardToken.ValidTo)) return new List<IAuthorizationPolicy>(0).AsReadOnly();else return null;

Answer: D

Question: 49

You are creating a distributed application by using Microsoft .NET Framework 3.5. The application uses the Windows Communication Foundation model. You need to ensure that the following requirements are met: User authentication is performed at the message level. Data protection is performed at the transport level. Server authentication is performed at the transport level. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. <bindings> <wsHttpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > </security> </binding> </wsHttpBinding></bindings>
- B. <bindings> <wsHttpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > <transport clientCredentialType="Certificate" /> <message clientCredentialType="None"/> </security> </binding> </wsHttpBinding></bindings>
- C. <bindings> <wsHttpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > <transport clientCredentialType="Windows" /> <message clientCredentialType="None"/> </security> </binding> </wsHttpBinding></bindings>
- D. <bindings> <netTcpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > <transport clientCredentialType="Certificate" /> <message clientCredentialType="Certificate"/> </security> </binding> </netTcpBinding></bindings>

Answer: A, D

Question: 50

You are creating a distributed application by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation (WCF) to create the application. The client application is used in Company A, and the service application is used in Company B. Company A and company B have security token services named STS_A and STS_B respectively. You need to authenticate the client application by using federated security. Which combination of bindings should you use?

- A. wsHttpBinding for the client applicationwsFederationHttpBinding for the WCF servicewsFederationHttpBinding for the STS_A servicewsFederationHttpBinding for the STS_B service
- B. wsFederationHttpBinding for the client applicationwsFederationHttpBinding for the WCF servicewsHttpBinding for the STS_A servicewsHttpBinding for the STS_B service
- C. wsHttpBinding for the client applicationwsFederationHttpBinding for the WCF servicewsHttpBinding for the STS_A servicewsFederationHttpBinding for the STS_B service
- D. wsHttpBinding for the client applicationwsFederationHttpBinding for the WCF servicewsFederationHttpBinding for the STS_A servicewsHttpBinding for the STS_B service

Answer: B

Question: 51

You are creating a distributed application by using Microsoft .NET Framework 3.5. The application uses Windows Communication Foundation (WCF). The distributed application provides point-to-point security. You need to ensure that the distributed application provides end-to-end security instead of point-to-point security. Which binding mode should you use?

- A. netTcpBinding with Transport security
- B. wsHttpBinding with Transport security
- C. wsHttpBinding with Message security
- D. netNamedPipeBinding with Transport security

Answer: C

Question: 52

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service will validate certificates to authorize client applications. You write the following code segment. class Store: IStore { public void RemoveOrder(int ordered) { } }

You need to ensure that only those client applications that meet the following criteria can access the RemoveOrder method: "AdminUser" is the subject in the client certificate. "1bf47e90f00acf4c0089cda65e0aadc1cedd592" is the thumbprint in the client certificate. What should you do?

- A. Decorate the RemoveOrder method by using the following attribute. [PrincipalPermission(SecurityAction.Demand, Name="AdminUser; 1bf47e90f00acf4c0089cda65e0aadc1cedd592")] Initialize the serviceAuthorization element of the service behavior in the following manner. <serviceAuthorization principalPermissionMode="Windows"/>

B. Decorate the RemoveOrder method by using the following attribute.
[PrincipalPermission(SecurityAction.Demand, Role="CN=AdminUser, 1bf47e90f00acf4c0089cda65e0aadcf1cedd592")] Initialize the serviceAuthorization element of the service behavior in the following manner. <serviceAuthorization principalPermissionMode="Windows"/>

C. Decorate the RemoveOrder method by using the following attribute.

[PrincipalPermission(SecurityAction.Demand, Role="AdminUser, 1bf47e90f00acf4c0089cda65e0aadcf1cedd592")] Initialize the serviceAuthorization element of the service behavior in the following manner. <serviceAuthorization principalPermissionMode="UseAspNetRoles"/>

D. Decorate the RemoveOrder method by using the following attribute.

[PrincipalPermission(SecurityAction.Demand, Name = "CN=AdminUser; 1bf47e90f00acf4c0089cda65e0aadcf1cedd592")] Initialize the serviceAuthorization element of the service behavior in the following manner. <serviceAuthorization principalPermissionMode="UseAspNetRoles"/>

Answer: D

Question: 53

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following XML code fragment. <service name="Contoso.Exams.ExamService" behaviorConfiguration="ExamServiceBehavior"> <host> <baseAddresses> <add baseAddress="http://localhost:8000/ServiceModelExam/service"/> </baseAddresses> </host> </service> You need to add an endpoint definition to the service configuration for the URL http://localhost:8000/ServiceModelExam/service to expose the Contoso.Exams.IExam service contract. Which definition should you add?

- A. <endpoint address="" binding="wsHttpBinding" contract="Contoso.Exams.IExam" />
- B. <endpoint address="/service" binding="wsHttpBinding" contract="Contoso.Exams.IExam" />
- C. <endpoint address="/service" binding="basicHttpBinding" contract="Contoso.Exams.IExam" />
- D. <endpoint address="http: //localhost:8000/ServiceModelExam/service" binding="basicHttpBinding" contract="IExam" />

Answer: A

Question: 54

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a Windows Service environment. You need to create a Windows Service class that instantiates a service host. Which code segment should you use?

- A. public class WindowsExamService : ServiceController{ private ServiceHost serviceHost; public new void Start() { serviceHost=new ServiceHost(typeof(ExamService)); serviceHost.Open(); }}

B. public class WindowsExamService : ServiceHostBase{ private ServiceHost serviceHost; public new void Open() { serviceHost=new ServiceHost(typeof(ExamService)); serviceHost.Open(); }}

C. public class WindowsExamService : ServiceBase{ private ServiceHost serviceHost; protected override void OnStart(string[] args) { serviceHost=new ServiceHost(typeof(ExamService)); serviceHost.Open(); }}

D. public class WindowsExamService : ServiceHost{ private ServiceHost serviceHost; public new void Open() { serviceHost=new ServiceHost(typeof(ExamService)); serviceHost.Open(); }}

Answer: C

Question: 55

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a managed Console application. The service endpoint has an address that is relative to the base address of the service. You need to programmatically add the base address to the service. What should you do?

- A. Call a constructor of the ServiceHost class.
- B. Call an AddServiceEndpoint method of the ServiceHost class.
- C. Create and add a custom endpoint behavior to the service.
- D. Create and add a custom operation behavior to the service.

Answer: A

Question: 56

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You need to use a custom service host to host the WCF service in Windows Activation Services (WAS). What should you do?

- A. Write hosting code for the WCF service.
- B. Add a reference to the custom service host in the web.config file.
- C. Add code to instantiate the custom service host from within the main procedure of the WCF service.
- D. Create a custom service host factory that instantiates the custom service host. Include a reference to this factory in the .svc file.

Answer: D

Question: 57

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted on a Web server. You need to ensure that the service is able to access the current HttpContext instance. Which configuration settings and attribute should you use?

- A. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="true" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.Allowed)]
- B. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="false" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.Allowed)]
- C. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="true" />

```
</system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=
AspNetCompatibilityRequirementsMode.NotAllowed)]
D. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="false" />
</system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=
AspNetCompatibilityRequirementsMode.Required)]
```

Answer: A

Question: 58

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be exposed for consumption. You need to ensure that the service supports interoperability with the broadest possible number of Web Service toolkits. The service must also support transport-level security. Which configuration setting should you use?

- A. <endpoint address="" binding="basicHttpBinding" contract="IContract"></endpoint>
- B. <endpoint address="" binding="wsHttpBinding" contract="IContract"></endpoint>
- C. <endpoint address="" binding="wsDualHttpBinding" contract="IContract"></endpoint>
- D. <endpoint address="" binding="wsFederationHttpBinding" contract="IContract"></endpoint>

Answer: A

Question: 59

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You find that the service starts even though the endpoints have not been configured correctly. You need to create a custom service behavior that throws an exception if the list of endpoints that are configured is not complete. Which code segment should you use?

- A. class CustomBehavior:IServiceBehavior{ public void Validate(ServiceDescription description, ServiceHostBase serviceHostBase) { MyValidationMethod(); //validates list of endpoints. }}
- B. class CustomBehavior:IEndpointBehavior{ public void Validate(ServiceEndpoint endpoint) { MyValidationMethod(); //validates list of endpoints. }}
- C. class CustomBehavior:IContractBehavior{ public void Validate(ContractDescription contractDescription, ServiceEndpoint endpoint) { MyValidationMethod(); //validates list of endpoints. }}
- D. class CustomBehavior:IOperationBehavior{ public void Validate(OperationDescription operationDescription) { MyValidationMethod(); //validates list of endpoints. }}

Answer: A

Question: 60

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will contain an enumeration named OrderState. The OrderState enumeration will contain the following four values: Processing Cancelled Confirmed Closed The client application must be able to set the state of an Order entity to only the following two values: Cancelled Closed You need to create the data contract for OrderState. Which code segment should you use?

A. [DataContract]public enum OrderState{ Processing=1, [DataMember] Cancelled=2, [DataMember] Confirmed=3, Closed=4}

B. [DataContract]public enum OrderState{ Processing=1, [EnumMember] Cancelled=2, Confirmed=3, [EnumMember] Closed=4}

C. [DataContract]public enum OrderState{ [EnumMember(Value="False")] Processing=1, [EnumMember(Value="True")] Cancelled=2, [EnumMember(Value="True")] Confirmed=3, [EnumMember(Value="False")] Closed=4}

D. [DataContract]public enum OrderState{ [DataMember] Processing=1, [DataMember(IsRequired=true)] Cancelled=2, [DataMember] Confirmed=3, [DataMember(IsRequired=true)] Closed=4}

Answer: B

Question: 61

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service contains the following code segment. [DataContract] public class Person { ... } [DataContract] public class Customer : Person { ... } You need to create a service contract that meets the following requirements: The service contract must have an operation contract named GetPerson that returns an object of type Person. The GetPerson operation must be able to return an object of type Customer. Which code segment should you use?

A. [ServiceContract][ServiceKnownType("GetPerson")]public interface IMyService{ [OperationContract] Person GetPerson();}

B. [ServiceContract]public interface IMyService{ [OperationContract] [ServiceKnownType("Customer")] Person GetPerson();}

C. [ServiceContract][ServiceKnownType(typeof(Customer))]public interface IMyService{ [OperationContract] Person GetPerson();}

D. [ServiceContract][ServiceKnownType("GetPerson",typeof(Customer))]public interface IMyService{ [OperationContract] Person GetPerson();}

Answer: C

Question: 62

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You write the following code segment. (Line numbers are included for reference only.)

```
01 public interface IMyService
02 {
```

```
04 string ProcessString(string name);
05 }
```

You create a host for the WCF service. You also create a service endpoint at <http://localhost:8080/service>. You add an instance of the `HttpTransferEndPointBehavior` class to the host. You need to ensure that the `ProcessString` method can be invoked from a Web browser by using the URL <http://localhost:8080/service/process?name=value> Which code segment should you insert at line 03?

- A. `[OperationContract(Name="process", Action="Get")]`
- B. `[OperationContract(Name="process", Action="Post")]`
- C. `[OperationContract][WebGet(UriTemplate = "process?name={name}")]`
- D. `[OperationContract][WebInvoke(UriTemplate = "process?name={name}")]`

Answer: C

Question: 63

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment. `[ServiceContract] public interface IMathService { [OperationContract] int AddNumbers(int a, int b); double AddNumbers(double a, double b); }` You have not deployed the `IMathService` service. You need to expose the `AddNumbers (double a, double b)` operation to the `IMathService` service contract. Which code segment should you use?

- A. `[OperationContract]int AddNumbers(int a, int b);[OperationContract]double AddNumbers(double a, double b);`
- B. `[OperationContract(Name="AddInt")]int AddNumbers(int a, int b);[OperationContract(Name="AddDouble")]double AddNumbers(double a, double b);`
- C. `[OperationContract(Action="IMathService/AddInt")]int AddNumbers(int a, int b);[OperationContract(Action="IMathService/AddDouble")]double AddNumbers(double a, double b);`
- D. `[OperationContract(Action="AddInt/*")]int AddNumbers(int a, int b);[OperationContract(Action="AddDouble/*")]double AddNumbers(double a, double b);`

Answer: B

Question: 64

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to ensure that data sent in a SOAP header is in the following XML format.

```
<Data> <string>String
1</string>
<string>String
2</string>
<string>String
3</string> </Data>
```

Which code segment should you use?

- A. [DataContract]public class MyMessage{ [MessageHeader] public string[] Data;}
- B. [DataContract]public class MyMessage{ [MessageHeaderArray] public string[] Data;}
- C. [DataContract]public class MyMessage{ [MessageProperty] public string[] Data;}
- D. [DataContract]public class MyMessage{ [MessageBodyMember (Order=0)] public string[] Data;}

Answer: A

Question: 65

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment. (Line numbers are included for reference only.)

```
01 [ServiceContract(SessionMode=SessionMode.Required)]
02 public interface IOrderManager 03 { 04 05 void
CloseOrder(); 06 }
```

You need to decorate the operation as the method that closes the current session. Which code segment should you insert at line 04?

- A. [OperationContract(IsInitiating=false)]
- B. [OperationContract(IsTerminating=true)]
- C. [OperationContract][OperationBehavior(ReleaseInstanceMode=ReleaseInstanceMode.AfterCall)]
- D. [OperationContract(IsTerminating=false)][OperationBehavior(ReleaseInstanceMode=ReleaseInstanceMode.AfterCall)]

Answer: B

Question: 66

You have created a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The existing service interface is named IMyService, and contains the following code segment. [ServiceContract(Name="SvcOrder", Namespace="http://contoso.com/services")] public interface IMyService { [OperationContract] void DoSomething(); } You create a new service named IMyServiceV1 that contains an operation named DoSomethingElse.

You need to ensure that existing client applications are still able to access the `IMyService.DoSomething` method without modifying client code.

Which code segment should you use?

- A. `[ServiceContract(Namespace="http://contoso.com/services/V1")]public interface IMyServiceV1 : IMyService{ [OperationContract] void DoSomethingElse();}`
- B. `[ServiceContract(Name="SvcOrder")]public interface IMyServiceV1 : IMyService{ [OperationContract] void DoSomethingElse();}`
- C. `[ServiceContract(Name="SvcOrderV1", Namespace="http://contoso.com/services")]public interface IMyServiceV1 : IMyService{ [OperationContract] void DoSomethingElse();}`
- D. `[ServiceContract(Name="SvcOrder", Namespace="http://contoso.com/services")]public interface IMyServiceV1 : IMyService{ [OperationContract] void DoSomethingElse();}`

Answer: D

Question: 67

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You need to enable WCF tracing at runtime by using Windows Management Instrumentation (WMI). Which three tasks should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Use WMI to set the `AppDomainInfo` trace properties to true.
- B. Set the `wmiProviderEnabled` attribute to true in the configuration file.
- C. Set the `performanceCounters` attribute to `ServiceOnly` in the configuration file.
- D. Set up a message log listener in the configuration file. Set all trace properties to false.
- E. Set up a `System.ServiceModel` trace listener in the configuration file. Set all trace properties to false.

Answer: A, B, E

Question: 68

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service accepts service requests from different partner applications. One of the partner applications occasionally receives faults. You need to identify why the service is generating faults. You must accomplish this goal without interrupting the service. What should you do?

- A. Run `SvcTraceViewer.exe /register` on the WCF server.
- B. Connect remotely to the WCF service by using a debugger. Place breakpoints in the exception handling code segment.
- C. Configure the Service Tracing options in the application configuration file. Analyze the trace results by using the `SvcTraceViewer.exe` program.
- D. Add the following code segment to the application configuration file. `<system.diagnostics>
<switches> <add name="WcfFaultTrace" value="Error" /> </switches></system.diagnostics>`

Answer: C

Question: 69

You are creating a Windows Communication Foundation client application by using Microsoft .NET Framework 3.5. You need to inspect the parameters on the client application. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Implement the `IParameterInspector` interface.
- B. Implement the `IClientMessageInspector` interface.
- C. Insert a behavior before you call the `ClientBase.Open` method.
- D. Insert a code segment that creates a behavior in the `ICallContextInitializer.BeforeInvoke()` method.
- E. Implement the `IEndpointBehavior` behavior to add the parameter inspector to the `Dispatcher.ClientOperation.ParameterInspectors` method.
- F. Implement the `IEndpointBehavior` behavior to add the parameter inspector to the `Dispatcher.DispatchOperation.ParameterInspectors` method.

Answer: A, C, E

Question: 70

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment to define the service. (Line numbers are included for reference only.)

```
01 02 public interface IMyService 03 { 04
[OperationContract] 05 void ProcessOrder(int ordered);
06 } 07 public class ServiceImpl : IMyService 08 { 09
[OperationBehavior(TransactionAutoComplete=false, 10
TransactionScopeRequired=true)] 11 public void
ProcessOrder(int custId) 12 { 13 14 } 15 }
```

You need to set the `ServiceContract` attribute for the transaction behavior of the service. Which code segment should you insert at line 01?

- A. `[ServiceContract(SessionMode=SessionMode.Required)]`
- B. `[ServiceContract(SessionMode=SessionMode.Allowed)]`
- C. `[ServiceContract(SessionMode=SessionMode.Allowed, ProtectionLevel=ProtectionLevel.EncryptAndSign)]`
- D. `[ServiceContract(SessionMode=SessionMode.NotAllowed, ProtectionLevel=ProtectionLevel.EncryptAndSign)]`

Answer: A

Question: 71

You are creating a remote database management application by using Microsoft Windows Forms and Microsoft .NET Framework 3.5. You use the Windows Communication Foundation model to create the application. You write the following code segment. (Line numbers are included for reference only.)

```
01 public class QueryAnalyzerService :  
02 IQueryAnalyzerService, IDisposable {  
  
04 public void Open() { 05 } 06 public  
void ExecuteSql(string sql) { 07 ... 08 }  
09 public void Close() { 10 ... 11 } 12  
public void Dispose() { 13 ... 14 } 15 ...  
16 }
```

You need to ensure that each time a client application calls the Open() method, a new service instance is created. Which code segment should you insert at line 03?

- A. [OperationBehavior(TransactionScopeRequired=true)]
- B. [OperationBehavior(AutoDisposeParameters=true)]
- C. [OperationBehavior(ReleaseInstanceMode=ReleaseInstanceMode.None)]
- D. [OperationBehavior(ReleaseInstanceMode=ReleaseInstanceMode.BeforeCall)]

Answer: D

Question: 72

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service contains the following code segment.

```
[ServiceContract] public  
interface IMathSvc {  
[OperationContract] void  
AddNumbers(int num);  
[OperationContract] int  
Clear(); }
```

You need to ensure that the service meets the following requirements: The service can call the AddNumbers operation multiple times. The AddNumbers operation must start a session on the initial call. The service must call the Clear operation only if a session exists. The service must not call other operations after it calls the Clear operation. Which code segment should you use to replace the existing code segment?

A. [ServiceContract]public interface IMathSvc{ [OperationContract(IsOneWay=true)] void AddNumbers(int num); [OperationContract(IsTerminating=true)] int Clear();}

B. [ServiceContract]public interface IMathSvc{ [OperationContract(IsTerminating=false)] void AddNumbers(int num); [OperationContract(IsTerminating=true)] int Clear();}

C. [ServiceContract]public interface IMathSvc{ [OperationContract(IsInitiating=true, IsOneWay=true)] void AddNumbers(int num); [OperationContract(IsTerminating=true)] int Clear();}

D. [ServiceContract]public interface IMathSvc{ [OperationContract] void AddNumbers(int num); [OperationContract(IsInitiating=false, IsTerminating=true)] int Clear();}

Answer: D

Question: 73

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment.

```
01 [ServiceContract] 02
public class MyService 03
{ 04 [OperationContract]
05 06 public void
MyMethod() 07 { 08 09 }
10 }
```

The service uses a transactional binding. The TransactionFlow property for the binding is set to true. You need to ensure that the MyMethod method meets the following requirements: The method uses a client-side transaction if a client-side transaction exists. The method uses a server-side transaction if a client-side transaction does not exist. Which code segment should you insert at line 05?

A.
[OperationBehavior(TransactionScopeRequired=true)][TransactionFlow(TransactionFlowOption.Allowed)]

B.
[OperationBehavior(TransactionScopeRequired=true)][TransactionFlow(TransactionFlowOption.Mandatory)]

C.
[OperationBehavior(TransactionScopeRequired=false)][TransactionFlow(TransactionFlowOption.Allowed)]

D.
[OperationBehavior(TransactionScopeRequired=false)][TransactionFlow(TransactionFlowOption.Mandatory)]

Answer: A

Question: 74

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment.

```
[ServiceContract(CallbackContract=typeof(IMyServiceCallback))]
public interface IMyService { [OperationContract] void
MyMethod(); } [ServiceContract] public interface
IMyServiceCallback { [OperationContract] void CallbackMethod();
}
```

The implementation of the MyMethod operation must call back the CallbackMethod operation. You need to ensure that the service meets the following requirements: The CallbackMethod operation is able to call the service. The service instance is thread-safe. Which service implementation should you use?

- A. [ServiceBehavior]public class ServiceImpl : IMyService{ public void MyMethod() { IMyServiceCallback cb= OperationContext.Current.GetCallbackChannel<IMyServiceCallback>(); cb.CallbackMethod(); }}
- B. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Single)]public class ServiceImpl : IMyService{ public void MyMethod() { IMyServiceCallback cb= OperationContext.Current.GetCallbackChannel<IMyServiceCallback>(); cb.CallbackMethod(); }}
- C. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Multiple)]public class ServiceImpl : IMyService{ public void MyMethod() { IMyServiceCallback cb= OperationContext.Current.GetCallbackChannel<IMyServiceCallback>(); cb.CallbackMethod(); }}
- D. [ServiceBehavior(ConcurrencyMode=ConcurrencyMode.Reentrant)]public class ServiceImpl : IMyService{ public void MyMethod() { IMyServiceCallback cb= OperationContext.Current.GetCallbackChannel<IMyServiceCallback>(); cb.CallbackMethod(); }}

Answer: D

Question: 75

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET framework 3.5. You write the following code segment for a service contract.

```
[ServiceContract] public
interface IOrderManager{
[OperationContract] void
ProcessOrder(int ordered); }
```

You need to ensure that the WCF service meets the following requirements: The ProcessOrder method uses transactions. The ProcessOrder method commits automatically if no exception occurs. Which method implementation should you use?

- A. [TransactionFlow(TransactionFlowOption.NotAllowed)][OperationBehavior]public void ProcessOrder(int

orderId){}

B. [OperationBehavior(TransactionScopeRequired=true, TransactionAutoComplete=true)]public void ProcessOrder(int orderId){}

C.

[TransactionFlow(TransactionFlowOption.Allowed)][OperationBehavior(TransactionScopeRequired=false, TransactionAutoComplete=true)]public void ProcessOrder(int orderId){}

D.

[TransactionFlow(TransactionFlowOption.Allowed)][OperationBehavior(ReleaseInstanceMode=ReleaseInstanceMode.AfterCall, TransactionScopeRequired=true, TransactionAutoComplete=false)]public void ProcessOrder(int orderId){}

Answer: B

Microsoft 70-503(VB)

Question: 1

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted on a Web server. You add the following code fragment to the .svc file. <% @ServiceHost Factory="ExamServiceFactory" Service="ExamService" %>
You need to create the instances of the services by using the custom ExamServiceFactory class. Which code segment should you use?

- A. Public Class ExamServiceFactory Inherits ServiceHost Protected Overrides Sub ApplyConfiguration() 'Implementation code comes here End SubEnd Class
- B. Public Class ExamServiceFactory Inherits ServiceHostBase Protected Overrides Sub ApplyConfiguration() 'Implementation code comes here End SubEnd Class
- C. Public Class ExamServiceFactory Inherits ServiceHostFactory Protected Overrides Function CreateServiceHost(_ ByVal serviceType As Type, _ ByVal baseAddresses() As System.Uri) As ServiceHost 'Implementation code comes here End FunctionEnd Class
- D. Public Class ExamServiceFactory Inherits ServiceHost Public Sub New(ByVal serviceType As Type, _ ByVal ParamArray baseAddresses As Uri()) MyBase.New(serviceType, baseAddresses) 'Implementation code comes here End SubEnd Class

Answer: C

Question: 2

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to expose two different service endpoints that have the same address. Which configuration setting should you use?

- A. <service name="ExamService"> <endpoint address="http://localhost:8080/service" binding="wsHttpBinding" contract="ISimpleExam"/> <endpoint address="http://localhost:8080/service" binding="wsHttpBinding" contract="IComplexExam"/></service>
- B. <service name="ExamService"> <endpoint address="http://localhost:8080/service" binding="wsHttpBinding" contract="ISimpleExam"/> <endpoint address="http://localhost:8080/service" binding="wsDualHttpBinding" contract="IComplexExam"/></service>
- C. <service name="ExamService"> <host> <baseAddresses> <add baseAddress="http://localhost:8080/service"/> </baseAddresses> </host> <endpoint binding="wsHttpBinding" contract="ISimpleExam"/> <endpoint binding="basicHttpBinding" contract="IComplexExam"/></service>
- D. <service name="ExamService"> <host> <baseAddresses> <add baseAddress="http://localhost:8080"/> </baseAddresses> </host> <endpoint address="service" binding="wsHttpBinding" contract="ISimpleExam"/> <endpoint address="service" binding="basicHttpBinding" contract="IComplexExam"/></service>

contract="IComplexExam"/></service>

Answer: A

Question: 3

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service uses the net.tcp transport. You need to ensure that when the server starts, the service starts and continues to run. What should you do?

- A. Host the service in a Windows service.
- B. Host the service in a Windows Presentation Foundation application.
- C. Host the service under IIS 7.0 by using IIS 6.0 compatibility mode.
- D. Host the service under IIS 7.0 by using Windows Activation Services.

Answer: A

Question: 4

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a managed Console application. You want to add endpoints to the service. You need to ensure that all endpoints use the same base address. Which code fragment should you use?

A. `<ServiceContract(> _Public Interface IMortgageServiceEnd InterfacePublic Class MortgageService Implements IMortgageServiceEnd ClassDim baseAddress As New Uri(_ "http: //localhost:8888/MortgageService")Dim _serviceHost As New ServiceHost(_ _GetType(MortgageService), New Uri() {baseAddress}) _serviceHost.AddServiceEndpoint(_ _GetType(IMortgageService), New BasicHttpBinding(), "")_serviceHost.Open()`

B. `<ServiceContract(> _Public Interface IMortgageServiceEnd InterfacePublic Class MortgageService Implements IMortgageServiceEnd ClassDim baseAddress As New Uri(_ "http: //localhost:8888/MortgageService")Dim _serviceHost As New ServiceHost(_ _GetType(MortgageService), New Uri() {})_serviceHost.AddServiceEndpoint(_ _GetType(IMortgageService), _New BasicHttpBinding(), baseAddress)_serviceHost.Open()`

C. `<ServiceContract(> _Public Interface IMortgageServiceEnd InterfacePublic Class MortgageService Implements IMortgageServiceEnd ClassDim baseAddress As String = _ "http: //localhost:8888/MortgageService"Dim _serviceHost As New ServiceHost(_ _GetType(MortgageService), New Uri() {})_serviceHost.AddServiceEndpoint(_ _GetType(IMortgageService), _New BasicHttpBinding(), baseAddress)_serviceHost.Open()`

D. `<ServiceContract(_Namespace:="http: //localhost:8888/MortgageService")> _Public Interface IMortgageServiceEnd InterfacePublic Class MortgageService Implements IMortgageServiceEnd ClassDim _serviceHost As New ServiceHost(_ _GetType(MortgageService), New Uri() {})_serviceHost.AddServiceEndpoint(_ _GetType(IMortgageService), _New BasicHttpBinding(), "")_serviceHost.Open()`

Answer: A

Question: 5

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to host the service in a medium trust environment on a Web server. Which two bindings should you use? (Each correct answer presents a complete solution. Choose two.)

- A. NetMsmqBinding
- B. BasicHttpBinding
- C. WSDualHttpBinding
- D. NetTcpBinding
- E. WebHttpBinding

Answer: B, E

Question: 6

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to programmatically add the following endpoint definition to the service. `http://localhost:8000/ExamService/service` Which code segment should you use?

- A. `Dim baseAddress As String = "http: //localhost:8000/ExamService"``Dim binding1 As New BasicHttpBinding()``Using host As New ServiceHost(GetType(ExamService))``host.AddServiceEndpoint(GetType(IExam), binding1, baseAddress)``End Using`
- B. `Dim baseAddress As String = _ "http: //localhost:8000/ExamService/service"``Dim binding1 As New BasicHttpBinding()``Using host As New ServiceHost(GetType(ExamService))``host.AddServiceEndpoint(GetType(IExam), binding1, baseAddress)``End Using`
- C. `Dim baseAddress As String = "http: //localhost:8000/ExamService"``Dim binding1 As New WSHttpBinding()``Using host As New ServiceHost(GetType(ExamService))``host.AddServiceEndpoint(GetType(IExam), binding1, baseAddress)``End Using`
- D. `Dim baseAddress As String = _ "http: //localhost:8000/ExamService/service"``Dim binding1 As New NetTcpBinding()``Using host As New ServiceHost(GetType(ExamService))``host.AddServiceEndpoint(GetType(IExam), binding1, baseAddress)``End Using`

Answer: B

Question: 7

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You need to host the WCF service on the IIS Web server. First, you create a new folder for your application files. Next, you use the IIS management tool to create a Web application in the new folder. Which three actions should you perform next? (Each correct answer presents part of the solution. Choose three.)

- A. Create a `web.config` file that contains the appropriate configuration code. Place this file in the application folder.

- B. Create a web.config file that contains the appropriate configuration code. Place this file in the same folder as your service contract code.
- C. Create a service file that has the .svc extension containing the @service directive information for the service. Move this file to the application folder.
- D. Create a service file that has the .svc extension containing the @servicehost directive information for the service. Move this file to the application folder.
- E. Create a vti_bin sub-folder within the application folder for your code files. Place the code file that defines and implements the service contract in this folder.
- F. Create an App_Code sub-folder within the application folder for your code files. Place the code file that defines and implements the service contract in this folder.

Answer: A, D, F

Question: 8

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code fragment in the service configuration file. (Line numbers are included for reference only.)

```
01 <system.serviceModel> 02 ... 03 <behaviors>
04 <serviceBehaviors> 05 <behavior
name="CalculatorServiceBehavior"> 06
<CustomServiceBehavior/> 07 </behavior> 08
</serviceBehaviors> 09 </behaviors> 10 11
</system.serviceModel>
```

You need to register the custom service behavior in the service configuration file. Which code fragment should you insert at line 10?

- A. <behaviorExtensions> <add name="CustomServiceBehavior" type="CustomBehavior.CustomServiceBehaviorSection, CustomBehavior, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" /></behaviorExtensions>
- B. <extensions> <add name="CustomServiceBehavior" type="CustomBehavior.CustomServiceBehaviorSection, CustomBehavior, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" /></extensions>
- C. <behaviorExtensions> <extensions> <add name="CustomServiceBehavior" type="CustomBehavior.CustomServiceBehaviorSection, CustomBehavior, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" /> </extensions> </behaviorExtensions>
- D. <extensions> <behaviorExtensions> <add name="CustomServiceBehavior" type="CustomBehavior.CustomServiceBehaviorSection, CustomBehavior, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null" /> </behaviorExtensions></extensions>

Answer: D

Question: 9

You are creating an application in Windows Communication Foundation(WCF) by using Microsoft.NET Framework 3.5 You need to ensure that the client application communicates with the service by using a duplex contract. Which five actions should you perform?(To answer,move the five appropriate actions

Actions	Answer Area
Create an interface in the WCF service for the service itself.	
Create two interfaces in the WCF service—one for a callback interface and another for the service itself.	
Run the WCF service and use the Svcutil.exe application to generate proxies for the client.	
Implement the callback interface on the callback class.	
Create an instance of the callback class and pass it as a constructor parameter to the InstanceContext object. Pass the InstanceContext object as a constructor parameter to the client proxy.	
Create an instance of the client and use the default endpoint configuration as the parameter.	
Implement the service interface on the service class.	

Answer:

Actions	Answer Area
Create an interface in the WCF service for the service itself.	Create two interfaces in the WCF service—one for a callback interface and another for the service itself.
Create two interfaces in the WCF service—one for a callback interface and another for the service itself.	Implement the service interface on the service class.
Run the WCF service and use the Svcutil.exe application to generate proxies for the client.	Run the WCF service and use the Svcutil.exe application to generate proxies for the client.
Implement the callback interface on the callback class.	Implement the callback interface on the callback class.
Create an instance of the callback class and pass it as a constructor parameter to the InstanceContext object. Pass the InstanceContext object as a constructor parameter to the client proxy.	Create an instance of the callback class and pass it as a constructor parameter to the InstanceContext object. Pass the InstanceContext object as a constructor parameter to the client proxy.
Create an instance of the client and use the default endpoint configuration as the parameter.	
Implement the service interface on the service class.	

Question: 10

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a Console application. You need to configure the service by using a configuration file other than the default app.config file. Which code segment should you use?

A. Class MyServiceHost Inherits ServiceHost Public Sub New(ByVal serviceType As Type, _
ByVal ParamArray baseAddresses As Uri()) MyBase.New(serviceType, baseAddresses) End
Sub Protected Overrides Sub InitializeRuntime() 'Load configuration here End SubEnd Class

B. Class MyServiceHost Inherits ServiceHost Public Sub New(ByVal serviceType As Type, _
ByVal

```
ParamArray baseAddresses As Uri()) MyBase.New(serviceType, baseAddresses) End Sub  
Protected Overrides Sub ApplyConfiguration() 'Load configuration here End SubEnd Class
```

```
C. Class MyServiceHost Inherits ServiceHost Public Sub New(ByVal serviceType As Type, _  
ByVal ParamArray baseAddresses As Uri()) MyBase.New(serviceType, baseAddresses) End  
Sub Protected Shadows Sub InitializeDescription( _ ByVal serviceType As Type, _ ByVal  
baseAddresses As UriSchemeKeyedCollection) 'Load configuration here End SubEnd Class
```

```
D. Class MyServiceHost Inherits ServiceHost Public Sub New(ByVal serviceType As Type, _  
ByVal ParamArray baseAddresses As Uri()) MyBase.New(serviceType, baseAddresses) End  
Sub Protected Shadows Sub AddBaseAddresses(ByVal baseAddress As Uri) 'Load  
configuration here End SubEnd Class
```

Answer: B

Question: 11

You are creating a distributed application by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation to create the application. You plan to perform the following tasks: Authenticate the client applications by using Microsoft ASP.NET membership provider. Authorize the client applications by using Microsoft ASP.NET role provider. You write the following code segment.

```
<ServiceContract(> _ Public Interface  
IService <OperationContract(> _ Sub  
Remove(ByVal id As Integer) End  
Interface Public Class Service Implements  
IService Public Sub Remove(ByVal id As  
Integer) _ Implements IService.Remove  
End Sub End Class
```

You need to ensure that only those client applications that provide credentials belonging to the AdminGroup role can access the Remove method. What should you do?

A. Add the following attribute to the Remove method of the Service class.

```
<PrincipalPermission(SecurityAction.Demand, Role:="AdminGroup")> _
```

B. Add the following attribute to the Remove method of the IService interface.

```
<PrincipalPermission(SecurityAction.Demand, Role:="AdminGroup")> _
```

C. Add the following attribute to the Service class.

```
<PrincipalPermission(SecurityAction.Demand, _  
Name:="Remove", Role:="AdminGroup")> _
```

D. Add the following attribute to the Service class.

```
<PrincipalPermission(SecurityAction.Demand, _  
Name:="IService.Remove", Role:="AdminGroup")> _
```

Answer: A

Question: 12

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The service will authenticate the client applications by using Personal Information Cards. You write the following code segment. (Line numbers are included for reference only.)

```
01 Public Class CustomServiceAuthorizationManager
02 Inherits ServiceAuthorizationManager
03 Public Overrides Function CheckAccess( _
04 ByVal operationContext As OperationContext) As Boolean
05 Dim action As String = _ operationContext.RequestContext. _
06 RequestMessage.Headers.Action
07 If action = "http://tempuri.org/IEngine/Update" Then
08 For Each cs As ClaimSet In _ operationContext.ServiceSecurityContext. _
09 AuthorizationContext.ClaimSets
10 Return False
11 End If
12 Return True
13 End Function
14 Function IsEmailValid(ByVal email As String) As Boolean
15 'e-mail validation is performed here;
16 Return True
17 End Function
18 End Class
```

You need to ensure that only those client applications that provide a valid e-mail address can execute the Update method. Which code segment should you insert at line 08?

- A. For Each c As Claim In cs.FindClaims(_"http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress", _"PossessProperty") Return IsEmailValid(c.Resource.ToString())Next
- B. For Each c As Claim In cs.FindClaims(_"http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress", _String.Empty) Return IsEmailValid(c.Resource.ToString())Next
- C. For Each c As Claim In cs.FindClaims(_"http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress", _Rights.PossessProperty) Return IsEmailValid(c.Resource.ToString())Next
- D. For Each c As Claim In cs.FindClaims(_"http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress", _Rights.Identity) Return IsEmailValid(c.Resource.ToString())Next

Answer: C

Question: 13

You are creating a distributed application by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation (WCF) to create the application. The operations provided by the WCF server use the remote resources of other computers. These methods use the credentials provided by the client applications.

You need to ensure that the WCF server can impersonate the client applications to access the remote resources. Which client application settings should you use?

- A. `<windows allowedImpersonationLevel="Delegation"/>`
- B. `<windows allowedImpersonationLevel="Impersonation"/>`
- C. `<windows allowedImpersonationLevel="Identification"/>`
- D. `<windows allowedImpersonationLevel="Impersonation" allowNtlm="false"/>`

Answer: A

Question: 14

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The client applications are unable to use SSL. You need to ensure that clients authenticate by using a token provided by a Security Token Service (STS). What should you do?

- A. Use a BasicHttpBinding binding with the security mode set to Message.
- B. Use a BasicHttpBinding binding with the security mode set to TransportWithMessageCredential.
- C. Use a WSFederationHttpBinding binding with the security mode set to Message.
- D. Use a WSFederationHttpBinding binding with the security mode set to TransportWithMessageCredential.

Answer: C

Question: 15

You are creating a client application by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation (WCF) to create the application. The client application uses a Personal Information Card to provide authentication information to the WCF server. You write the following code fragment. (Line numbers are included for reference only.)

```
01 <wsFederationHttpBinding> 02
<binding name="requireCardSpace">
03 <security mode="Message"> 04
<message > 05 06 </message> 07
</security> 08 </binding> 09
</wsFederationHttpBinding>
```

You need to ensure that one of the claims in the Personal Information Card contains an e-mail address. Which code fragment should you insert at line 05?

- A. `<claimTypeRequirements> <add claimType="http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress" isOptional="false"/></claimTypeRequirements><issuer address="http: //schemas.xmlsoap.org/ws/2005/05/identity/issuer/personal"/>`
- B. `<claimTypeRequirements> <add claimType="http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress"/></claimTypeRequirements><issuer address="http: //schemas.xmlsoap.org/ws/2005/05/identity/issuer/personal"/>`

C. <claimTypeRequirements> <add claimType="http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress"/></claimTypeRequirements><issuer address="http: //schemas.xmlsoap.org/ws/2005/05/identity/issuer/managed"/>
D. <claimTypeRequirements> <add claimType="http: //schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress" isOptional="false"/></claimTypeRequirements><issuer address="http: //schemas.xmlsoap.org/ws/2005/05/identity/issuer/self"/>

Answer: D

Question: 16

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code fragment for the configuration setting. (Line numbers are included for reference only.)

```
01 <wsHttpBinding> 02  
  <binding name="simple">  
03 04 </binding> 05  
</wsHttpBinding>
```

You need to ensure that the service uses transport security and allows access to anonymous client applications. Which code fragment should you insert at line 03?

- A. <security mode="Transport" > <transport clientCredentialType="Basic" /></security>
- B. <security mode="Transport" > <message clientCredentialType="None"/></security>
- C. <security mode="Transport" > <message clientCredentialType="Certificate"/></security>
- D. <security mode="Transport" > <transport clientCredentialType="None" /></security>

Answer: D

Question: 17

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service contains the following binding configuration in the configuration file. (Line numbers are included for reference only.)

```
01 <wsHttpBinding> 02  
  <binding name="ssl"> 03  
4 </binding> 05  
</wsHttpBinding>
```

You need to ensure that the following requirements are met: The service must use transport-level security (SSL via HTTPS). The service must use message-level security to authenticate client applications by using user name and password. Which configuration setting should you insert at line 03?

- A. <security mode="Message"> <message clientCredentialType="UserName"/></security>
- B. <security mode="TransportWithMessageCredential"> <message clientCredentialType="UserName"/></security>
- C. <security mode="Transport"> <transport clientCredentialType="Windows"/> <message clientCredentialType="UserName"/></security>

D. <security mode="Message" > <transport clientCredentialType="Windows" /> <message clientCredentialType="UserName" /></security>

Answer: B

Question: 18

You create a client application by using Microsoft .NET Framework 3.5. The client application uses a Windows Communication Foundation (WCF) service. You plan to implement inspection handling on the client application and the WCF service. You need to add error handling to the WCF service. What should you do?

- A. Modify the BeforeSendReply method to catch the ReplyValidationFault exception. Replace the reply message with an explicit fault message.
- B. Modify the BeforeSendRequest method to catch the ReplyValidationFault exception. Replace the reply message with an explicit fault message.
- C. Modify the AfterReceiveRequest method to catch the ReplyValidationFault exception. Replace the reply message with an explicit fault message.
- D. Modify the AfterReceiveReply method to catch the ReplyValidationFault exception. Replace the reply message with an explicit fault message.

Answer: A

Question: 19

You create a service by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation to create the service. You use the WSHttpBinding binding to prevent tampering of the data. Users report that the data is unreadable. You need to troubleshoot the problem by logging the incoming messages. Which code fragment should you use?

- A. <system.serviceModel> <diagnostics> <messageLogging logEntireMessage="true" logMessagesAtTransportLevel="true"/> </diagnostics></system.serviceModel>
- B. <system.serviceModel> <diagnostics> <messageLogging logEntireMessage="true" logMessagesAtServiceLevel="true"/> </diagnostics></system.serviceModel>
- C. <system.serviceModel> <diagnostics> <messageLogging logEntireMessage="true" logMalformedMessages="true"/> </diagnostics></system.serviceModel>
- D. <system.serviceModel> <diagnostics> <messageLogging logMessagesAtServiceLevel="true" logMessagesAtTransportLevel="true"/> </diagnostics></system.serviceModel>

Answer: B

Question: 20

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. Client applications that run on different platforms access the WCF service. These applications transmit confidential data to the WCF service. You write the following binding configuration <binding name="TransportSecurity" > <security mode="Transport" /> </binding> ... You need to configure the service for optimum interoperability and optimum security.

Which code fragment should you use?

- A. `<service name="AdventureWorks.Travel.ReservationService"> <endpoint address="" binding="wsHttpBinding" contract="AdventureWorks.Travel.IReservationService"/> <host> <baseAddresses> <add baseAddress="http: //localhost:80/Service/" /> </baseAddresses> </host></service>`
- B. `<service name="AdventureWorks.Travel.ReservationService"> <endpoint address="" binding="basicHttpBinding" contract="AdventureWorks.Travel.IReservationService"/> <host> <baseAddresses> <add baseAddress="http: //localhost:80/Service/" /> </baseAddresses> </host></service>`
- C. `<service name="AdventureWorks.Travel.ReservationService"> <endpoint address="" binding="basicHttpBinding" bindingConfiguration="TransportSecurity" contract="AdventureWorks.Travel.IReservationService"/> <host> <baseAddresses> <add baseAddress="https: //localhost:443/Service/" /> </baseAddresses> </host></service>`
- D. `<service name="AdventureWorks.Travel.ReservationService"> <endpoint address="" binding="wsHttpBinding" bindingConfiguration="TransportSecurity" contract="AdventureWorks.Travel.IReservationService"/> <host> <baseAddresses> <add baseAddress="https: //localhost:443/Service/" /> </baseAddresses> </host></service>`

Answer: C

Question: 21

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You set up tracing for the service. The tracing fails because of an error in the service configuration. You need to identify the cause of the error. What should you do?

- A. Examine the system event log.
- B. Examine the security event log.
- C. Examine the application event log.
- D. Set the enableLogKnownPii attribute to true in the machine.config file.

Answer: C

Question: 22

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You want to enable message logging. You add the following code fragment to the service configuration file.

```
<system.diagnostics> <sources> <source
name="System.ServiceModel.MessageLogging">
<listeners> <add name="messages"
type="System.Diagnostics.XmlWriterTraceListener" />
</listeners> </source> </sources> </system.diagnostics>
```

You receive an exception. You need to successfully enable message logging.

What should you do?

- A. Remove the message filter.
- B. Set the switchValue attribute to verbose.
- C. Set the initializeData attribute to the name of a log file.
- D. Set the maximum size of the message to be logged to 256K.

Answer: C

Question: 23

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You configure a binding to enable streaming. You need to ensure that the client application is able to stream large XML files to the WCF service. Which operation contract should you create?

- A. <OperationContract> _ Sub UploadFile(ByVal xmlData As Stream)
- B. <OperationContract> _ Sub UploadFile(ByVal xmlData As XmlWriter)
- C. <OperationContract> _ Sub UploadFile(ByVal xmlData As StreamWriter)
- D. <OperationContract> _ Sub UploadFile(ByVal xmlData As Byte())

Answer: A

Question: 24

You create a Windows Communication Foundation client application by using Microsoft .NET Framework 3.5. The client application communicates with an existing Web service that requires custom HTTP headers. You need to ensure that all messages sent to the service include the headers. Which two tasks should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create a message inspector. Insert the custom headers by using the `IClientMessageInspector.AfterReceiveReply` method.
- B. Create a message inspector. Insert the custom headers by using the `IClientMessageInspector.BeforeSendRequest` method.
- C. Create a custom endpoint behavior. Add the message inspector by using the `IEndpointBehavior.ApplyClientBehavior` method.
- D. Create a custom endpoint behavior. Add the message inspector by using the `IEndpointBehavior.AddBindingParameters` method.

Answer: B, C

Question: 25

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment. (Line numbers are included for reference only.)

```
01 <ServiceContract(Namespace:="http://uri.contoso.com")> _  
02 Public Interface IMyService 03 <OperationBehavior()> _ 04  
Function ProcessDetails(ByVal s As String) As String 05  
<OperationContract(Action:="UpdateStatus")> _ 06 Sub  
UpdateStatus()
```

08 End Interface

If the existing operation contract is unable to process a request made to the service, a generic operation contract must attempt to process the request. You need to create the generic operation contract. Which code segment should you insert at line 07?

- A. `<OperationContract(Action:="*")> _ Sub ProcessOthers(ByVal msg As Message)`
- B. `<OperationContract(Action:="*")> _ Sub ProcessOthers()`
- C. `<OperationContract(Action:="Default")> _ Sub ProcessOthers(ByVal msg As Message)`
- D. `<OperationContract(Action:="Default")> _ Sub ProcessOthers()`

Answer: A

Question: 26

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service contains two operations named `ProcessSimpleOrder` and `ProcessComplexOrder`. You need to expose the `ProcessSimpleOrder` operation to all the client applications. You also need to expose the `ProcessComplexOrder` operation only to specific client applications. Which code segment should you use?

- A. `<ServiceContract()> _ Public Interface IOrderManager <OperationContract(Action:="*")> _ Sub ProcessSimpleOrder() <OperationContract()> _ Sub ProcessComplexOrder()End Interface`
- B. `<ServiceContract()> _ Public Interface IOrderManager <OperationContract(Name:="http://contoso.com/Simple")> _ Sub ProcessSimpleOrder() <OperationContract(Name:="http://contoso.com/Complex")> _ Sub ProcessComplexOrder()End Interface`
- C. `<ServiceContract()> _ Public Interface ISimpleOrderManager <OperationContract()> _ Sub ProcessSimpleOrder()End Interface<ServiceContract()> _ Public Interface IComplexOrderManager Inherits ISimpleOrderManager <OperationContract()> _ Sub ProcessComplexOrder()End Interface`
- D. `<ServiceContract()> _ Public Interface ISimpleOrderManager <OperationContract(Name:="http://contoso.com/Simple")> _ Sub ProcessSimpleOrder()End InterfacePublic Interface IComplexOrderManager Inherits ISimpleOrderManager <OperationContract(Name:="http://contoso.com/Complex")> _ Sub ProcessComplexOrder()End Interface`

Answer: C

Question: 27

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service contains the following code segment. `<ServiceContract()> _ Public Interface IMyService <OperationContract(IsOneWay:=True, _ ProtectionLevel:=ProtectionLevel.None)> _ <TransactionFlow(TransactionFlowOption.Allowed)> _ Sub DoSomething() End Interface` You need to ensure that the `DoSomething` operation can participate in transactions.

Which code segment should you use to replace the existing operation contract?

- A. <OperationContract(_ ProtectionLevel:=ProtectionLevel.None)> _
<TransactionFlow(TransactionFlowOption.Allowed)> _ Sub DoSomething()
- B. <OperationContract(_ ProtectionLevel:=ProtectionLevel.EncryptAndSign)> _
<TransactionFlow(TransactionFlowOption.NotAllowed)> _ Sub DoSomething()
- C. <OperationContract(IsOneWay:=True, _ ProtectionLevel:=ProtectionLevel.EncryptAndSign)> _
<TransactionFlow(TransactionFlowOption.Allowed)> _ Sub DoSomething()
- D. <OperationContract(IsOneWay:=True, _ ProtectionLevel:=ProtectionLevel.Sign)> _
<TransactionFlow(TransactionFlowOption.Mandatory)> _ Sub DoSomething()

Answer: A

Question: 28

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You have successfully defined a service contract named IManageOrders. You write the following code segment. Public Class OrderImpl Implements IManageOrders
Public Sub MarkOrderClosed(ByVal orderId As Integer) _ Implements
IManageOrders.MarkOrderClosed Try ... Catch ex As SqlException Throw New
FaultException(Of DataFault)(_ New DataFault()) End Try End Sub End Class
<DataContract(> _ Public Class DataFault End Class You need to create a fault contract
for the MarkOrderClosed method on the IManageOrders service contract. Which code
segment should you add?

- A. <FaultContract(GetType(DataFault))>
- B. <FaultContract(GetType(Exception))>
- C. <FaultContract(GetType(SqlException))>
- D. <FaultContract(GetType(FaultException))>

Answer: A

Question: 29

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment for the service implementation. (Line numbers are included for reference only.)

```
01 Public Sub PutMessage(ByVal msg As Message)
02 Dim value As String = Nothing
```

04 End Sub You need to retrieve the content from the received message body and store it in the variable named value.

Which code segment should you insert at line 03?

- A. value = msg.GetBody(Of String)()
- B. Dim ns As String = msg.Headers.GetHeader(Of String)(0) value = msg.GetBodyAttribute("Body", ns)
- C. Dim reader As XmlReader reader = msg.GetBody(Of XmlReader)() value = reader.ReadOuterXml()
- D. Dim reader As XmlReader reader = msg.GetReaderAtBodyContents() value = reader.ReadOuterXml()

Answer: D

Question: 30

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to ensure that the service can send data in the following format to the client applications.

```
<Account Id=""> <Name> </Name>
<Balance Currency="">
</Balance> </Account>
```

Which code segment should you use?

- A. <Serializable()> _ Public Class Account <XmlAttribute()> _ Public Id As String <XmlElement()> _ Public Name As String <XmlAttribute()> _ Public Currency As String <XmlElement()> _ Public Balance As Double End Class
- B. <DataContract()> _ Public Class Account <DataMember(Order:=0)> _ Public Id As String <DataMember(Order:=1)> _ Public Name As String <DataMember(Order:=0)> _ Public Balance As Double <DataMember(Order:=1)> _ Public Currency As String End Class
- C. <Serializable()> _ Public Class Account <XmlAttribute()> _ Public Id As String Public Name As String <XmlElement("Balance")> _ Public Balance As BalanceVal End Class <Serializable()> _ Public Class BalanceVal <XmlText()> _ Public Amount As Double <XmlAttribute()> _ Public Currency As String End Class
- D. <DataContract()> _ Public Class Account <DataMember(Order:=0)> _ Public Id As String <DataMember(Order:=1)> _ Public Name As String <DataMember(Name:="Balance", Order:=2)> _ Public Balance As BalanceVal End Class <DataContract()> _ Public Structure BalanceVal <DataMember(Order:=0)> _ Public Amount As Double <DataMember(Order:=1)> _ Public Currency As String End Structure

Answer: C

Question: 31

You are creating a client application that will call a Windows Communication Foundation service. The service was created by using Microsoft .NET Framework 3.5. You write the following code segment.

```
<DataContract(> _ Public Class CreditCard
<DataMember(> _ Public Property Name() As String Get
End Get Set(ByVal value As String) End Set End Property
<DataMember(> _ Public Property CardNumber() As String
Get Return _cardNumber End Get Set(ByVal value As
String) If Not IsValidCreditCardNumber(value) Then Throw
New ArgumentException("Invalid credit card number") Else
_cardNumber = value End If End Set End Property End
Class
```

You plan to share the validation logic between the client application and the WCF service. You need to generate a client-side service proxy that includes the validation logic. Which four tasks should you perform? (Each correct answer presents part of the solution. Choose four.)

- A. Create a Class Library project for the DataContract classes.
- B. In the Service project, add a reference to the Class Library project.
- C. In the Client project, add a reference to the Class Library project.
- D. In the Client project, use the Add Web Reference dialog box to reference the service.
- E. In the Client project, use the Add Service Reference dialog box to reference the service.
- F. In the Client project, use the Add Reference dialog box to add a project reference to the Service project.

Answer: A, B, C, E

Question: 32

You are creating a Windows Communication Foundation client application by using Microsoft .NET Framework 3.5. You add the following code segment to a service contract.

```
<ServiceContract(> _ Interface IDocumentService
<OperationContract(> _ Function DeleteDocument(ByVal
id As Integer) As Integer End Interface
```

The DeleteDocument method in the service contract takes a long time to execute. The client application stops responding until the method finishes execution.

You write the following code segment to create an instance of a service proxy in the client application. (Line numbers are included for reference only.)

```
01 Shared Sub Main() 02 Dim client As New DocumentServiceClient()  
03 04 End Sub 05 Shared Sub ProcessDeleteDocument(ByVal result  
As IAsyncResult) 06 07 End Sub
```

You need to ensure that the service methods are called asynchronously.
What should you do?

A. Insert the following code segment at line 03. client.BeginDeleteDocument(20, _AddressOf ProcessDeleteDocument, client) Insert the following code segment at line 06. Dim count As Integer = _CType(result.AsyncState, DocumentServiceClient). _EndDeleteDocument(Nothing)

B. Insert the following code segment at line 03. client.BeginDeleteDocument(20, _AddressOf ProcessDeleteDocument, client) Insert the following code segment at line 06. result.AsyncWaitHandle.WaitOne() Dim count As Integer = _CType(result, DocumentServiceClient). _EndDeleteDocument(result)

C. Insert the following code segment at line 03. client.BeginDeleteDocument(20, _AddressOf ProcessDeleteDocument, client) Insert the following code segment at line 06. Dim count As Integer = _CType(result.AsyncState, DocumentServiceClient). _EndDeleteDocument(result)

D. Insert the following code segment at line 03. Dim result As IAsyncResult = _client.BeginDeleteDocument(20, _AddressOf ProcessDeleteDocument, client) Dim count As Integer = _client.EndDeleteDocument(result) Insert the following code segment at line 06. result.AsyncWaitHandle.WaitOne()

Answer: C

Question: 33

You are creating a Windows Communication Foundation application by using Microsoft .NET Framework 3.5. The application must consume an ATOM 1.0 feed published at <http://localhost:8000/BlogService/GetBlog>. You write the following code segment. (Line numbers are included for reference only.)

```
01 Dim address As New Uri( _  
"http://localhost:8000/BlogService/GetBlog")  
02 03 Console.WriteLine(feed.Title.Text)
```

You need to ensure that the application prints the title of the feed.
Which code segment should you insert at the line 02?

A. Dim feed As SyndicationFeed = SyndicationFeed.Load(address)
 B. Dim feed As SyndicationFeed = New SyndicationFeed()feed.BaseUri = address
 C. Dim item As SyndicationItem = SyndicationItem.Load(address)Dim feed As New SyndicationFeed()feed.Items = New SyndicationItem() {item}
 D. Dim item As New SyndicationItem()item.BaseUri = addressDim feed As New SyndicationFeed()feed.Items = New SyndicationItem() {item}

Answer: A

Question: 34

You are creating a client application by using Microsoft .NET Framework 3.5. The client application uses a Windows Communication Foundation service. To log the called service proxy methods and their parameters, you implement custom endpoint behavior in the following class. Class ParametersLoggerBehavior Implements IEndpointBehavior End Class You also create the following class for the custom behavior. Class LoggerElement Inherits BehaviorExtensionElement End Class You add the following configuration code fragment to the application configuration file. (Line numbers are included for reference only.)

```
01 <behaviors> 02 <endpointBehaviors> 03 04
</endpointBehaviors> 05 </behaviors> 06 <extensions> 07
<behaviorExtensions> 08 <add name="debugBehavior"
type="Client.LoggerElement, 09 ClientApp, Version=1.0.0.0,
Culture=neutral, 10 PublicKeyToken=null"/> 11
</behaviorExtensions> 12 </extensions>
```

You need to ensure that the endpoint uses the custom behavior.
 Which configuration settings should you insert at line 03?

A. <debugBehavior name="debug" />
 B. <behavior name="debug"> <debugBehavior /></behavior>
 C. <behavior name="debug"> <ParametersLoggerBehavior /></behavior>
 D. <ParametersLoggerBehavior name="debug"> <debugBehavior /></ParametersLoggerBehavior>

Answer: B

Question: 35

You are creating a Windows Communication Foundation (WCF) client application by using Microsoft .NET Framework 3.5. The WCF service transfers data to the client applications by using the streaming transfer mode. You need to create an endpoint that supports the streaming transfer mode. Which binding should you use?

- A. wsHttpBinding
- B. basicHttpBinding
- C. webHttpBinding
- D. wsFederationHttpBinding

Answer: B

Question: 36

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You add the following code segment to the service.

```
<ServiceContract(> _ Public Interface ICalulatorService
<OperationContract(> _
<FaultContract(GetType(ArithmeticException))> _ Function
Divide(ByVal number1 As Double, _ ByVal number2 As Double) As
Double <OperationContract(> _ Sub DisposeCalculator() End
Interface <ServiceBehavior(IncludeExceptionDetailInFaults:=True)> _
Public Class CalculatorService Implements ICalulatorService Public
Function Divide(ByVal number1 As Double, _ ByVal number2 As
Double) _ As Double Implements ICalulatorService.Divide If number2
= 0 Then Throw New DivideByZeroException End If Return number1 /
number2 End Function Public Sub DisposeCalculator() _ Implements
ICalulatorService.DisposeCalculator 'Release resource '... End Sub
End Class You add the following code segment to the client
application. 01 Public Function PerformCalculations(ByVal number1
As Double, _ ByVal number2 As Double) As Double
```

03 End Function You need to ensure that the DisposeCalculator operation is always called. Which code segment should you insert at line 02?

- A. Dim proxy As New CalculatorClient Dim result As Integer = -1 Try result = proxy.Divide(number1, number2) Catch ex As DivideByZeroException End Try proxy.DisposeCalculator() Return result
- B. Dim proxy As New CalculatorClient Dim result As Integer = -1 Try result = proxy.Divide(number1, number2) Catch ex As DivideByZeroException proxy.Close() proxy = New CalculatorClient() End Try proxy.DisposeCalculator() Return result

C. Dim proxy As New CalculatorClientDim result As Integer = -1Try result = proxy.Divide(number1, number2)Catch ex As FaultExceptionEnd Tryproxy.DisposeCalculator()Return result
 D. Dim proxy As New CalculatorClientDim result As Integer = -1Try result = proxy.Divide(number1, number2)Catch ex As FaultException proxy.Close() proxy = New CalculatorClient()End Tryproxy.DisposeCalculator()Return result

Answer: D

Question: 37

You are creating a Windows Communication Foundation client application by using Microsoft .NET Framework 3.5. The client application consumes the Web Services Enhancements (WSE) 3.0 Web service. The Web service uses standard WSE 3.0 to transfer binary data to the client application. The client application uses the following binding configuration. (Line numbers are included for reference only.)

```
01 <customBinding> 02 <binding
name="custom" > 03 04 <httpTransport
maxBufferSize="700000" 04
maxReceivedMessageSize="700000" /> 05
</binding> 06 </customBinding>
```

You need to ensure that the client application receives binary data from the WSE 3.0 Web service. Which code fragment should you insert at line 03?

- A. <binaryMessageEncoding maxReadPoolSize="700000" />
- B. <binaryMessageEncoding > <readerQuotas maxBytesPerRead="700000" /></binaryMessageEncoding>
- C. <binaryMessageEncoding > <readerQuotas maxArrayLength="700000"/></binaryMessageEncoding>
- D. <mtomMessageEncoding messageVersion="Soap12WSAddressingAugust2004"> <readerQuotas maxArrayLength="700000"/></mtomMessageEncoding>

Answer: D

Question: 38

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You create the following service contract. <ServiceContract()> _ Public Interface IMyService <OperationContract()> _ Sub DoSomething() End Interface The service will not use any external resources. You need to ensure that the calls to the DoSomething operation are thread-safe. What are the two possible service implementations that you can use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Multiple, _ InstanceContextMode:=InstanceContextMode.Single)> _ Public Class ServiceImpl Implements IMyService Public Sub DoSomething() _ Implements IMyService.DoSomething End SubEnd Class

B. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Single, _ InstanceContextMode:=InstanceContextMode.Single)> _ Public Class ServiceImpl Implements IMyService Public Sub DoSomething() _ Implements IMyService.DoSomething End SubEnd Class

C. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Multiple, _ InstanceContextMode:=InstanceContextMode.PerSession)> _ Public Class ServiceImpl Implements IMyService Public Sub DoSomething() _ Implements IMyService.DoSomething End SubEnd Class

D. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Multiple, _ InstanceContextMode:=InstanceContextMode.PerCall)> _ Public Class ServiceImplD Implements IMyService Public Sub DoSomething() _ Implements IMyService.DoSomething End SubEnd Class

Answer: B, D

Question: 39

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment.

```
01 <ServiceContract(> _ 02 Public Interface IMyService 03
<OperationContract(> _ 04 Sub MyMethod() 05 End Interface
06 Public Class ServiceImpl 07 Implements IMyService 08 09
Public Sub MyMethod() Implements IMyService.MyMethod 10
End Sub 11 End Class
```

You need to ensure that when the MyMethod method is called, the service is the root of a transaction. Which code segment should you insert at line 08?

A. <OperationBehavior(TransactionScopeRequired:=True)> _
<TransactionFlow(TransactionFlowOption.Allowed)> _

B. <OperationBehavior(TransactionScopeRequired:=True)> _
<TransactionFlow(TransactionFlowOption.NotAllowed)> _

C. <OperationBehavior(TransactionScopeRequired:=False)> _
<TransactionFlow(TransactionFlowOption.Mandatory)> _

D. <OperationBehavior(TransactionScopeRequired:=False)> _
<TransactionFlow(TransactionFlowOption.NotAllowed)> _

Answer: D

Question: 40

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You create the following service definition.

<ServiceContract()> _ Public Interface IMyService ...
End Interface You need to custom manage the lifetime
of the session. Which service implementation should
you use?

- A. <ServiceBehavior(AutomaticSessionShutdown:=True)> _ Public Class ServiceImpl ...End Class
- B. <ServiceBehavior(AutomaticSessionShutdown:=False)> _ Public Class ServiceImpl ...End Class
- C. <ServiceBehavior(UseSynchronizationContext:=True)> _ Public Class ServiceImpl ...End Class
- D. <ServiceBehavior(UseSynchronizationContext:=False)> _ Public Class ServiceImplD ...End Class

Answer: D

Question: 41

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment for the service contract. (Line numbers are included for reference only.)

```
01 <ServiceContract()> _  
02 03 Public Class  
MyService 04 ... 05 End  
Class
```

The service uses transactions that time out in a minute. You need to increase the timeout interval of the transactions to 2 minutes and 30 seconds. Which code segment should you insert at line 02?

- A. <ServiceBehavior(TransactionTimeout:="150")> _
- B. <ServiceBehavior(TransactionTimeout:="0:2:30")> _
- C. <ServiceBehavior(TransactionTimeout:="2:30:00")> _
- D. <ServiceBehavior(TransactionTimeout:="0:150:00")> _

Answer: B

Question: 42

You create a stateless, thread-safe service by using Microsoft .NET Framework 3.5. You use the Windows Communication Foundation model to create the service. Load testing reveals that the service does not scale above 1,000 concurrent users. You discover that each call to the service instantiates a new service instance. You also discover that these service instances are expensive to create. You need to ensure that 5,000 concurrent users can access the service. Which code segment should you use?

- A. <ServiceBehavior(_InstanceContextMode:=InstanceContextMode.PerCall, _ConcurrencyMode:=ConcurrencyMode.Reentrant)> _
- B. <ServiceBehavior(_InstanceContextMode:=InstanceContextMode.Single, _ConcurrencyMode:=ConcurrencyMode.Multiple)> _

C. <ServiceBehavior(_InstanceContextMode:=InstanceContextMode.PerCall, _ConcurrencyMode:=ConcurrencyMode.Multiple)> _
D. <ServiceBehavior(_InstanceContextMode:=InstanceContextMode.Single, _ConcurrencyMode:=ConcurrencyMode.Reentrant)> _

Answer: B

Question: 43

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment.

```
01 <ServiceContract(> _ 02 Public Interface IMyService 03  
<OperationContract(> _ 04 Sub MyMethod() 05 End Interface  
06 07 Public Class ServiceImpl 08 Implements IMyService 09  
<OperationBehavior(TransactionScopeRequired:=True)> _ 10  
Public Sub MyMethod() _ 11 Implements  
IMyService.MyMethod 12 13 End Sub 14 End Class
```

You need to ensure that concurrent calls are allowed on the service instance. Which code segment should you insert at line 06?

A. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Multiple, _ReleaseServiceInstanceOnTransactionComplete:=True)> _
B. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Multiple, _ReleaseServiceInstanceOnTransactionComplete:=False)> _
C. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Reentrant, _ReleaseServiceInstanceOnTransactionComplete:=True)> _
D. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Reentrant, _ReleaseServiceInstanceOnTransactionComplete:=False)> _

Answer: B

Question: 44

You have created a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The existing service interface is named IMyService, and contains the following code segment. <ServiceContract(Name:="SvcOrder", _Namespace:="http://contoso.com/services")> _ Public Interface IMyService <OperationContract(> _ Sub DoSomething() End Interface You create a new service named IMyServiceV1 that contains an operation named DoSomethingElse. You need to ensure that existing client applications are still able to access the IMyService.DoSomething

method without modifying client code.
Which code segment should you use?

- A. <ServiceContract(Namespace:="http: //contoso.com/services/V1")> _ Public Interface IMyServiceV1 Inherits IMyService <OperationContract()> _ Sub DoSomethingElse()End Interface
- B. <ServiceContract(Name:="SvcOrder")> _ Public Interface IMyServiceV1 Inherits IMyService <OperationContract()> _ Sub DoSomethingElse()End Interface
- C. <ServiceContract(Name:="SvcOrderV1", _ Namespace:="http: //contoso.com/services")> _ Public Interface IMyServiceV1 Inherits IMyService <OperationContract()> _ Sub DoSomethingElse()End Interface
- D. <ServiceContract(Name:="SvcOrder", _ Namespace:="http: //contoso.com/services")> _ Public Interface IMyServiceV1 Inherits IMyService <OperationContract()> _ Sub DoSomethingElse()End Interface

Answer: D

Question: 45

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment.

```
<ServiceContract()> _ Public Interface IMathService <OperationContract()> _ Function AddNumbers( _ ByVal a As Integer, ByVal b As Integer) As Integer Function AddNumbers( _ ByVal a As Double, ByVal b As Double) As Double End Interface
```

You have not deployed the IMathService service. You need to expose the AddNumbers (a As Double, b As Double) As Double operation to the IMathService service contract. Which code segment should you use?

- A. <OperationContract()> _ Function AddNumbers(_ ByVal a As Integer, ByVal b As Integer) As Integer<OperationContract()> _ Function AddNumbers(_ ByVal a As Double, ByVal b As Double) As Double
- B. <OperationContract(Name:="AddInt")> _ Function AddNumbers(_ ByVal a As Integer, ByVal b As Integer) As Integer<OperationContract(Name:="AddDouble")> _ Function AddNumbers(_ ByVal a As Double, ByVal b As Double) As Double
- C. <OperationContract(Action:="IMathService/AddInt")> _ Function AddNumbers(_ ByVal a As Integer, ByVal b As Integer) As Integer<OperationContract(Action:="IMathService/AddDouble")> _ Function AddNumbers(_ ByVal a As Double, ByVal b As Double) As Double
- D. <OperationContract(Action:="AddInt/*")> _ Function AddNumbers(_ ByVal a As Integer, ByVal b As Integer) As Integer<OperationContract(Action:="AddDouble/*")> _ Function AddNumbers(_ ByVal a As Double, ByVal b As Double) As Double

Answer: B

Question: 46

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You write the following code segment. (Line numbers are included for reference only.)

01 Public Interface IMyService

03 Function ProcessString(ByVal name As String) As String

04 End Interface You create a host for the WCF service.

You also create a service endpoint at `http://localhost:8080/service`. You add an instance of the `HttpTransferEndPointBehavior` class to the host. You need to ensure that the `ProcessString` method can be invoked from a Web browser by using the URL `http://localhost:8080/service/process? name=value` Which code segment should you insert at line 02?

- A. `<OperationContract(Name:="process", Action:="Get")> _`
- B. `<OperationContract(Name:="process", Action:="Post")> _`
- C. `<OperationContract> _ <HttpTransferContract(Path:="process", Method:="Get")> _`
- D. `<OperationContract> _ <HttpTransferContract(Path:="process", Method:="Post")> _`

Answer: C

Question: 47

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service contains the following code segment. `<DataContract()> _ Public Class Person ... End Class` `<DataContract()> _ Public Class Customer Inherits Person ... End Class` You need to create a service contract that meets the following requirements: The service contract must have an operation contract named `GetPerson` that returns an object of type `Person`. The `GetPerson` operation must be able to return an object of type `Customer`. Which code segment should you use?

- A. `<ServiceContract()> _ <ServiceKnownType("GetPerson")> _ Public Interface IMyService <OperationContract> _ Function GetPerson() As Person End Interface`
- B. `<ServiceContract()> _ Public Interface IMyService <OperationContract> _ <ServiceKnownType("Customer")> _ Function GetPerson() As Person End Interface`
- C. `<ServiceContract()> _ <ServiceKnownType(GetType(Customer))> _ Public Interface IMyService <OperationContract> _ Function GetPerson() As Person End Interface`

D. <ServiceContract()> _ <ServiceKnownType("GetPerson", GetType(Customer))> _ Public Interface IMyService <OperationContract()> _ Function GetPerson() As PersonEnd Interface

Answer: C

Question: 48

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment. (Line numbers are included for reference only.)

```
01 <ServiceContract(SessionMode:=SessionMode.Required)> _  
02 Public Interface IOrderManager 03 04 Sub CloseOrder() 05 _  
End Interface
```

You need to decorate the operation as the method that closes the current session. Which code segment should you insert at line 03?

- A. <OperationContract(IsInitiating:=False)> _
- B. <OperationContract(IsTerminating:=True)> _
- C. <OperationContract()> _ <OperationBehavior(_
ReleaseInstanceMode:=ReleaseInstanceMode.AfterCall)> _
- D. <OperationContract(IsTerminating:=False)> _ <OperationBehavior(_
ReleaseInstanceMode:=ReleaseInstanceMode.AfterCall)> _

Answer: B

Question: 49

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will contain an enumeration named OrderState. The OrderState enumeration will contain the following four values: Processing Cancelled Confirmed Closed The client application must be able to set the state of an Order entity to only the following two values: Cancelled Closed You need to create the data contract for OrderState. Which code segment should you use?

- A. <DataContract()> _ Public Enum OrderState Processing = 1 <DataMember()> _ Cancelled = 2 <DataMember()> _ Confirmed = 3 Closed = 4End Enum
- B. <DataContract()> _ Public Enum OrderState Processing = 1 <EnumMember()> _ Cancelled = 2 Confirmed = 3 <EnumMember()> _ Closed = 4End Enum
- C. <DataContract()> _ Public Enum OrderState <EnumMember(Value:="False")> _ Processing = 1 <EnumMember(Value:="True")> _ Cancelled = 2 <EnumMember(Value:="True")> _ Confirmed = 3 <EnumMember(Value:="False")> _ Closed = 4End Enum
- D. <DataContract()> _ Public Enum OrderState <DataMember()> _ Processing = 1

<DataMember(IsRequired:=True)> _ Cancelled = 2 <DataMember()> _ Confirmed = 3
<DataMember(IsRequired:=True)> _ Closed = 4End Enum

Answer: B

Question: 50

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You need to ensure that data sent in a SOAP header is in the following XML format. <Data> <string>String 1</string> <string>String 2</string> <string>String 3</string> </Data> Which code segment should you use?

- A. <MessageContract()> _ Public Class MyMessage <MessageHeader()> _ Public Data() As StringEnd Class
- B. <MessageContract()> _ Public Class MyMessage <MessageHeaderArray()> _ Public Data() As StringEnd Class
- C. <MessageContract()> _ Public Class MyMessage <MessageProperty()> _ Public Data() As StringEnd Class
- D. <MessageContract()> _ Public Class MyMessage <MessageBodyMember(Order:=0)> _ Public Data() As StringEnd Class

Answer: A

Question: 51

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You need to enable WCF tracing at runtime by using Windows Management Instrumentation (WMI). Which three tasks should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Use WMI to set the AppDomainInfo trace properties to true.
- B. Set the wmiProviderEnabled attribute to true in the configuration file.
- C. Set the performanceCounters attribute to ServiceOnly in the configuration file.
- D. Set up a message log listener in the configuration file. Set all trace properties to false.
- E. Set up a System.ServiceModel trace listener in the configuration file. Set all trace properties to false.

Answer: A, B, E

Question: 52

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service accepts service requests from different partner applications. One of the partner applications occasionally receives faults. You need to identify why the service is generating faults. You must accomplish this goal without interrupting the service. What should you do?

- A. Run SvcTraceViewer.exe /register on the WCF server.

- B. Connect remotely to the WCF service by using a debugger. Place breakpoints in the exception handling code segment.
- C. Configure the Service Tracing options in the application configuration file. Analyze the trace results by using the SvcTraceViewer.exe program.
- D. Add the following code segment to the application configuration file. <system.diagnostics> <switches> <add name="WcfFaultTrace" value="Error" /> </ switches></system.diagnostics>

Answer: C

Question: 53

You are creating a Windows Communication Foundation client application by using Microsoft .NET Framework 3.5. You need to inspect the parameters on the client application. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Implement the IParameterInspector interface.
- B. Implement the IClientMessageInspector interface.
- C. Insert a behavior before you call the ClientBase.Open method.
- D. Insert a code segment that creates a behavior in the ICallContextInitializer.BeforeInvoke() method.
- E. Implement the IEndpointBehavior behavior to add the parameter inspector to the Dispatcher.ClientOperation.ParameterInspectors method.
- F. Implement the IEndpointBehavior behavior to add the parameter inspector to the Dispatcher.DispatchOperation.ParameterInspectors method.

Answer: A, C, E

Question: 54

You create a Windows Communication Foundation (WCF) application by using Microsoft .NET Framework 3.5. The desktop client calls the WCF service to query its status. The call can take up to 10 seconds to complete. The client application must remain responsive when querying the service. You need to generate the required proxy. What should you do?

- A. Execute the svcutil http: //localhost:8000/MyWCF /async command.
- B. Execute the svcutil myServiceHost.exe /serviceName:MyWCF command.
- C. Execute the svcutil /validate /serviceName:MyWCF myServiceHost.exe command.
- D. Clear the Generate asynchronous operation check box in the Add Service Reference Settings dialog box.

Answer: A

Question: 55

You are creating a Windows Communication Foundation (WCF) client application by using Microsoft .NET Framework 3.5. The proxy generated for the WCF service results in the following code segment. <ServiceContract(CallbackContract:=GetType(IStoreCallback))> _ Public Interface IStore <OperationContract(IsOneWay:=True)> _ Sub CheckAvailableProducts() End Interface Public Interface IStoreCallback End Interface To implement a callback interface, you create the following class in the client application.

Public Class StoreCallback Implements IStoreCallback End Class The client application receives notifications from the service through the callback interface. You write the following code segment for the client application to use the generated proxy. (Line numbers are included for reference only.) 01 02 client.CheckAvailableProducts() You need to set up duplex communication between the client application and the WCF service. Which code segment should you insert at line 01?

- A. Dim client As StoreClient = _New StoreClient(New InstanceContext(GetType(StoreCallback)))
- B. Dim client As StoreClient = _New StoreClient(OperationContext.Current.InstanceContext)
- C. Dim client As StoreClient = _New StoreClient(New InstanceContext(New StoreCallback()))
- D. Dim callback As IStoreCallback = _OperationContext.Current.GetCallbackChannel(Of IStoreCallback)()Dim context As New InstanceContext(callback)Dim client As StoreClient = _New StoreClient(context)

Answer: C

Question: 56

You create a client application by using Microsoft .NET Framework 3.5. The client application consumes a Windows Communication Foundation service that uses the netMsmqBinding binding. The binding uses a private transactional queue named Library. The following code fragment is part of the application configuration file. (Line numbers are included for reference only.)

```
01 <endpoint binding="netMsmqBinding"
02 contract="ServiceReference.ILibrary"
03 04 />
```

You need to specify the address of the endpoint.
Which attribute should you insert at line 03?

- A. Address=".\\private\$\\Library"
- B. Address="net.msmq://.\\private\$\\Library"
- C. Address="net.msmq://localhost/private/Library"
- D. Address="net.msmq://localhost/private/transactional/Library"

Answer: C

Question: 57

You are creating a client application by using Microsoft .NET Framework 3.5. The client application will consume a COM+ application by using the Windows Communication Foundation service. You write the following code segment to implement the COM+ application. <Guid("InterfaceGuidIsHere")> _ Public Interface IDocumentStore Function IsDocumentExist(ByVal id As Long) As Boolean End Interface <Guid("ClassGuidIsHere")> _

Public Class DocumentStore Inherits ServicedComponent Implements IDocumentStore
 Public Function IsDocumentExist(ByVal id As Long) _ As Boolean Implements
 IDocumentStore.IsDocumentExist 'This code checks if document exists End Function End
 Class The application ID of the COM+ application is {AppGuidIsHere}. You need to configure
 the WCF service to access the COM+ application from the WCF client application. Which
 code fragment should you use?

- A. <services> <service name="{AppGuidIsHere},{ClassGuidIsHere}"> <endpoint
 binding="wsHttpBinding" contract="IDocumentStore"/> </service></services>
- B. <services> <service name="{AppGuidIsHere},{ClassGuidIsHere}"> <endpoint
 binding="wsHttpBinding" contract="{InterfaceGuidIsHere}"/> </service></services>
- C. <services> <service name="{AppGuidIsHere},{ClassGuidIsHere}"> <endpoint
 binding="wsHttpBinding" contract="DocumentStorage.IDocumentStore"/> </service></services>
- D. <services> <service name="{AppGuidIsHere}"> <endpoint binding="wsHttpBinding"
 contract="{InterfaceGuidIsHere}"/> </service></services>

Answer: B

Question: 58

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service contains the following code segment. <ServiceContract()> _
 Public Interface IMathSvc <OperationContract()> _ Sub AddNumbers(ByVal num As Integer) <OperationContract()> _ Function Clear() As Integer End Interface You need to ensure that the service meets the following requirements: The service can call the AddNumbers operation multiple times. The AddNumbers operation must start a session on the initial call. The service must call the Clear operation only if a session exists. The service must not call other operations after it calls the Clear operation. Which code segment should you use to replace the existing code segment?

- A. <ServiceContract()> _ Public Interface IMathSvc <OperationContract(IsOneWay:=True)> _
 Sub AddNumbers(ByVal num As Integer) <OperationContract(IsTerminating:=True)> _
 Function Clear() As Integer End Interface
- B. <ServiceContract()> _ Public Interface IMathSvc <OperationContract(IsTerminating:=False)> _
 _ Sub AddNumbers(ByVal num As Integer) <OperationContract(IsTerminating:=True)> _
 Function Clear() As Integer End Interface
- C. <ServiceContract()> _ Public Interface IMathSvc <OperationContract(IsInitiating:=True,
 IsOneWay:=True)> _ Sub AddNumbers(ByVal num As Integer)
 <OperationContract(IsTerminating:=True)>

```
_ Function Clear() As Integer End Interface
D. <ServiceContract(> _ Public Interface IMathSvc <OperationContract(> _ Sub
AddNumbers(ByVal num As Integer) <OperationContract(IsInitiating:=False,
IsTerminating:=True)> _ Function Clear() As Integer End Interface
```

Answer: D

Question: 59

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment.

```
<ServiceContract( _
CallbackContract:=GetType(IMyServiceCallback))> _
Public Interface IMyService <OperationContract(> _
Sub MyMethod() End Interface <ServiceContract(> _
Public Interface IMyServiceCallback
<OperationContract(> _ Sub CallbackMethod() End
Interface
```

The implementation of the MyMethod operation must call back the CallbackMethod operation. You need to ensure that the service meets the following requirements: The CallbackMethod operation is able to call the service. The service instance is thread-safe. Which service implementation should you use?

A. <ServiceBehavior(> _ Public Class ServiceImpl Implements IMyService Public Sub MyMethod() _ Implements IMyService.MyMethod Dim cb As IMyServiceCallback = _ OperationContext.Current.GetCallbackChannel(_ Of IMyServiceCallback)() cb.CallbackMethod() End Sub End Class

B. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Single)> _ Public Class ServiceImpl Implements IMyService Public Sub MyMethod() _ Implements IMyService.MyMethod Dim cb As IMyServiceCallback = _ OperationContext.Current.GetCallbackChannel(_ Of IMyServiceCallback)() cb.CallbackMethod() End Sub End Class

C. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Multiple)> _ Public Class ServiceImpl Implements IMyService Public Sub MyMethod() _ Implements IMyService.MyMethod Dim cb As IMyServiceCallback = _ OperationContext.Current.GetCallbackChannel(_ Of IMyServiceCallback)() cb.CallbackMethod() End Sub End Class

D. <ServiceBehavior(ConcurrencyMode:=ConcurrencyMode.Reentrant)> _ Public Class ServiceImpl Implements IMyService Public Sub MyMethod() _ Implements IMyService.MyMethod Dim cb As IMyServiceCallback = _ OperationContext.Current.GetCallbackChannel(_ Of IMyServiceCallback)() cb.CallbackMethod() End Sub End Class

Answer: D

Question: 60

You are creating a remote database management application by using Microsoft Windows Forms and Microsoft .NET Framework 3.5. You use the Windows Communication Foundation model to create the application. You write the following code segment. (Line numbers are included for reference only.)

```
01 Public Class QueryAnalyzerService 02  
Implements IQueryAnalyzerService, IDisposable  
  
04 Public Sub Open() 05 ... 06 End Sub 07 Public Sub  
ExecuteSql(ByVal sql As String) 08 ... 09 End Sub 10  
Public Sub Close() 11 ... 12 End Sub 13 Public Sub  
Dispose() Implements IDisposable.Dispose 14 ... 15 End  
Sub 16 ... 17 End Class
```

You need to ensure that each time a client application calls the Open() method, a new service instance is created. Which code segment should you insert at line 03?

- A. <OperationBehavior(TransactionScopeRequired:=True)> _
- B. <OperationBehavior(AutoDisposeParameters:=True)> _
- C. <OperationBehavior(_ ReleaseInstanceMode:=ReleaseInstanceMode.None)> _
- D. <OperationBehavior(_ ReleaseInstanceMode:=ReleaseInstanceMode.BeforeCall)> _

Answer: D

Question: 61

You create a Windows Communication Foundation (WCF) service by using Microsoft .NET framework 3.5. You write the following code segment for a service contract.

```
<ServiceContract(> _ Public Interface IOrderManager <OperationContract(> _ Sub  
ProcessOrder(ByVal orderId As Integer) End Interface You need to ensure that the WCF  
service meets the following requirements: The ProcessOrder method uses transactions.  
The ProcessOrder method commits automatically if no exception occurs. Which method  
implementation should you use?
```

- A. <TransactionFlow(TransactionFlowOption.NotAllowed)> _ <OperationBehavior(> _ Public Sub
ProcessOrder(ByVal orderId As Integer) _ Implements IOrderManager.ProcessOrder End Sub

B. <OperationBehavior(TransactionScopeRequired:=True, _ TransactionAutoComplete:=True)> _
 Public Sub ProcessOrder(ByVal orderId As Integer) _ Implements
 IOrderManager.ProcessOrderEnd Sub

C. <TransactionFlow(TransactionFlowOption.Allowed)> _
 <OperationBehavior(TransactionScopeRequired:=False, _ TransactionAutoComplete:=True)> _
 Public Sub ProcessOrder(ByVal orderId As Integer) _ Implements
 IOrderManager.ProcessOrderEnd Sub

D. <TransactionFlow(TransactionFlowOption.Allowed)> _
 <OperationBehavior(ReleaseInstanceMode:= _
 ReleaseInstanceMode.AfterCall, _ TransactionScopeRequired:=True, _
 TransactionAutoComplete:=False)> _ Public Sub ProcessOrder(ByVal
 orderId As Integer) _ Implements IOrderManager.ProcessOrderEnd
 Sub

Answer: B

Question: 62

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment.

```
01 <ServiceContract()> _ 02 Public Class MyService 03 <OperationContract()> _ 04 05 Public
Sub MyMethod() 06 End Sub 07 End Class
```

The service uses a transactional binding. The TransactionFlow property for the binding is set to True. You need to ensure that the MyMethod method meets the following requirements: The method uses a client-side transaction if a client-side transaction exists. The method uses a server-side transaction if a client-side transaction does not exist. Which code segment should you insert at line 04?

A. <OperationBehavior(TransactionScopeRequired:=True)> _
 <TransactionFlow(TransactionFlowOption.Allowed)> _

B. <OperationBehavior(TransactionScopeRequired:=True)> _
 <TransactionFlow(TransactionFlowOption.Mandatory)> _

C. <OperationBehavior(TransactionScopeRequired:=False)> _
 <TransactionFlow(TransactionFlowOption.Allowed)> _

D. <OperationBehavior(TransactionScopeRequired:=False)> _
 <TransactionFlow(TransactionFlowOption.Mandatory)> _

Answer: A

Question: 63

You create a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following code segment to define the service. (Line numbers are included for reference only.)

```
01 02 Public Interface IMyService 03
<OperationContract()> _ 04 Sub
ProcessOrder(ByVal orderId As Integer)
```

```

05 End Interface 06 Public Class ServiceImpl 07 Implements
IMyService 08
<OperationBehavior(TransactionAutoComplete:=False, _ 09
TransactionScopeRequired:=True)> _ 10 Public Sub
ProcessOrder(ByVal orderId As Integer) _ 11 Implements
IMyService.ProcessOrder

```

```

13 End Sub
14 End Class

```

You need to set the ServiceContract attribute for the transaction behavior of the service. Which code segment should you insert at line 01?

- A. <ServiceContract(SessionMode:=SessionMode.Required)> _
- B. <ServiceContract(SessionMode:=SessionMode.Allowed)> _
- C. <ServiceContract(SessionMode:=SessionMode.Allowed, _
ProtectionLevel:=ProtectionLevel.EncryptAndSign)> _
- D. <ServiceContract(SessionMode:=SessionMode.NotAllowed, _
ProtectionLevel:=ProtectionLevel.EncryptAndSign)> _

Answer: A

Question: 64

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service will validate certificates to authorize client applications. You write the following code segment. Class Store Implements IStore Public Sub RemoveOrder(ByVal ordered As Integer) _ Implements IStore.RemoveOrder End Sub End Class You need to ensure that only those client applications that meet the following criteria can access the RemoveOrder method: "AdminUser" is the subject in the client certificate. "1bf47e90f00acf4c0089cda65e0aadcf1cedd592" is the thumbprint in the client certificate. What should you do?

- A. Decorate the RemoveOrder method by using the following attribute.
<PrincipalPermission(SecurityAction.Demand,
_Name:="AdminUser;1bf47e90f00acf4c0089cda65e0aadcf1cedd592")> _ Initialize the serviceAuthorization element of the service behavior in the following manner.
<serviceAuthorization principalPermissionMode="Windows"/>
- B. Decorate the RemoveOrder method by using the following attribute.
<PrincipalPermission(SecurityAction.Demand,
_Role:="CN=AdminUser,1bf47e90f00acf4c0089cda65e0aadcf1cedd592")> _ Initialize the serviceAuthorization element of the service behavior in the following manner.
<serviceAuthorization principalPermissionMode="Windows"/>
- C. Decorate the RemoveOrder method by using the following attribute.
<PrincipalPermission(SecurityAction.Demand,

_Role:="AdminUser;1bf47e90f00acf4c0089cda65e0aadcf1cedd592")> _ Initialize the serviceAuthorization element of the service behavior in the following manner.
<serviceAuthorization principalPermissionMode="UseAspNetRoles"/>

D. Decorate the RemoveOrder method by using the following attribute.

<PrincipalPermission(SecurityAction.Demand,
_Name:="CN=AdminUser;1bf47e90f00acf4c0089cda65e0aadcf1cedd592")> _ Initialize the serviceAuthorization element of the service behavior in the following manner.
<serviceAuthorization principalPermissionMode="UseAspNetRoles"/>

Answer: D

Question: 65

You are creating a distributed application by using Microsoft .NET Framework 3.5. You use Windows Communication Foundation (WCF) to create the application. The client application is used in Company A, and the service application is used in Company B. Company A and company B have security token services named STS_A and STS_B respectively. You need to authenticate the client application by using federated security. Which combination of bindings should you use?

- A. wsHttpBinding for the client applicationwsFederationHttpBinding for the WCF servicewsFederationHttpBinding for the STS_A servicewsFederationHttpBinding for the STS_B service
- B. wsFederationHttpBinding for the client applicationwsFederationHttpBinding for the WCF servicewsHttpBinding for the STS_A servicewsHttpBinding for the STS_B service
- C. wsHttpBinding for the client applicationwsFederationHttpBinding for the WCF servicewsHttpBinding for the STS_A servicewsFederationHttpBinding for the STS_B service
- D. wsHttpBinding for the client applicationwsFederationHttpBinding for the WCF servicewsFederationHttpBinding for the STS_A servicewsHttpBinding for the STS_B service

Answer: B

Question: 66

You are creating a distributed application by using Microsoft .NET Framework 3.5. The application uses the Windows Communication Foundation model. You need to ensure that the following requirements are met: User authentication is performed at the message level. Data protection is performed at the transport level. Server authentication is performed at the transport level. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. <bindings> <wsHttpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > </security> </binding> </wsHttpBinding></bindings>
- B. <bindings> <wsHttpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > <transport clientCredentialType="Certificate" /> <message clientCredentialType="None"/> </security> </binding> </wsHttpBinding></bindings>
- C. <bindings> <wsHttpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > <transport clientCredentialType="Windows" /> <message clientCredentialType="None"/> </security> </binding> </wsHttpBinding></bindings>
- D. <bindings> <netTcpBinding> <binding name="main"> <security mode="TransportWithMessageCredential" > <transport clientCredentialType="Certificate" /> <message clientCredentialType="Certificate"/> </security> </binding> </netTcpBinding></bindings>

Answer: A, D

Question: 67

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. The WCF service must authenticate the client applications by validating credit card numbers and expiry dates. You write the following code segment. (Line numbers are included for reference only.)

```
01 Class CreditCardTokenAuthenticator 02 Inherits SecurityTokenAuthenticator 03  
Protected Overrides Function ValidateTokenCore( _ ByVal token As SecurityToken) _ As  
ReadOnlyCollection(Of IAuthorizationPolicy) 04 Dim _creditCardToken As CreditCardToken  
= _ CType(token, CreditCardToken) 05 06 End Function 07 Private Function IsCardValid( _  
ByVal cardNumber As String, _ ByVal expirationDate As DateTime) _ As Boolean 08  
'Validation code comes here 09 End Function 10 End Class
```

You need to implement custom authentication for the WCF service.
Which code segment should you insert at line 05?

- A. If IsCardValid(_creditCardToken.CardNumber, __creditCardToken.ValidTo) Then Return
NothingElse Throw New SecurityTokenValidationException()End If
- B. If IsCardValid(_creditCardToken.CardNumber, __creditCardToken.ValidTo) Then Throw New
SecurityTokenValidationException()Else Return NothingEnd If
- C. If IsCardValid(_creditCardToken.CardNumber, __creditCardToken.ValidTo) Then Return
NothingElse Return New List(Of IAuthorizationPolicy)(0).AsReadOnly()End If
- D. If IsCardValid(_creditCardToken.CardNumber, __creditCardToken.ValidTo) Then Return New
List(Of IAuthorizationPolicy)(0).AsReadOnly()Else Return NothingEnd If

Answer: D

Question: 68

You are creating a distributed application by using Microsoft .NET Framework 3.5. The application uses Windows Communication Foundation (WCF). The distributed application provides point-to-point security. You need to ensure that the distributed application provides end-to-end security instead of point-to-point security. Which binding mode should you use?

- A. netTcpBinding with Transport security
- B. wsHttpBinding with Transport security
- C. wsHttpBinding with Message security
- D. netNamedPipeBinding with Transport security

Answer: C

Question: 69

You are creating an application in Windows Communication Foundation (WCF) by using Microsoft.NET Framework 3.5. You need to ensure that the client application communicates with the service by using a duplex contract. Which five actions should you perform?(To answer, move the five appropriate actions from the list of actions to the answer area, and arrange them in the correct order.) Answer: Check CertWays eEngine, Download from Member Center Question: 78 You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted on a Web server. You need to ensure that the service is able to access the current HttpContext instance. Which configuration settings and attribute should you use?

- A. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="true" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.Allowed)]
- B. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="false" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.Allowed)]
- C. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="true" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.NotAllowed)]
- D. <system.serviceModel> <serviceHostingEnvironment aspNetCompatibilityEnabled="false" /> </system.serviceModel> [AspNetCompatibilityRequirements(RequirementsMode=AspNetCompatibilityRequirementsMode.Required)]

Answer: A

Question: 70

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a Windows Service environment. You need to create a Windows Service class that instantiates a service host. Which code segment should you use?

- A. Public Class WindowsExamService Inherits ServiceController Private _serviceHost As ServiceHost Public Shadows Sub Start() serviceHost = New ServiceHost(GetType(ExamService)) _serviceHost.Open() End Sub End Class
- B. Public Class WindowsExamService Inherits ServiceHostBase Private _serviceHost As ServiceHost Public Shadows Sub Open() _serviceHost = New ServiceHost(GetType(ExamService)) _serviceHost.Open() End Sub End Class
- C. Public Class WindowsExamService Inherits ServiceBase Private _serviceHost As ServiceHost Protected Overrides Sub OnStart(ByVal args() As String) _serviceHost = New ServiceHost(GetType(ExamService)) _serviceHost.Open() End Sub End Class
- D. Public Class WindowsExamService Inherits ServiceHost Private _serviceHost As ServiceHost Public Shadows Sub Open() _serviceHost = New ServiceHost(GetType(ExamService)) _serviceHost.Open() End Sub End Class

Answer: C

Question: 71

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be exposed for consumption. You need to ensure that the service supports interoperability with the broadest possible number of Web Service toolkits. The service must also support transport-level security. Which configuration setting should you use?

- A. <endpoint address="" binding="basicHttpBinding" contract="IContract"></endpoint>
- B. <endpoint address="" binding="wsHttpBinding" contract="IContract"></endpoint>
- C. <endpoint address="" binding="wsDualHttpBinding" contract="IContract"></endpoint>
- D. <endpoint address="" binding="wsFederationHttpBinding" contract="IContract"></endpoint>

Answer: A

Question: 72

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You find that the service starts even though the endpoints have not been configured correctly. You need to create a custom service behavior that throws an exception if the list of endpoints that are configured is not complete. Which code segment should you use?

- A. Class CustomBehavior Implements IServiceBehavior Public Sub Validate(ByVal serviceDescription _ As ServiceDescription, _ ByVal serviceHostBase As ServiceHostBase) _ Implements IServiceBehavior.Validate 'Validates list of endpoints MyValidationMethod() End SubEnd Class
- B. Class CustomBehavior Implements IEndpointBehavior Public Sub Validate(ByVal endpoint As ServiceEndpoint) _ Implements IEndpointBehavior.Validate 'Validates list of endpoints MyValidationMethod() End SubEnd Class
- C. Class CustomBehavior Implements IContractBehavior Public Sub Validate(ByVal contractDescription _ As ContractDescription, _ ByVal endpoint As ServiceEndpoint) _ Implements IContractBehavior.Validate 'Validates list of endpoints MyValidationMethod() End SubEnd Class
- D. Class CustomBehavior Implements IOperationBehavior Public Sub Validate(ByVal operationDescription As _ OperationDescription) _ Implements IOperationBehavior.Validate 'Validates list of endpoints MyValidationMethod() End SubEnd Class

Answer: A

Question: 3

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. The service will be hosted in a managed Console application. The service endpoint has an address that is relative to the base address of the service. You need to programmatically add the base address to the service. What should you do?

- A. Call a constructor of the ServiceHost class.
- B. Call an AddServiceEndpoint method of the ServiceHost class.
- C. Create and add a custom endpoint behavior to the service.
- D. Create and add a custom operation behavior to the service.

Answer: A

Question: 74

You are creating a Windows Communication Foundation (WCF) service by using Microsoft .NET Framework 3.5. You need to use a custom service host to host the WCF service in Windows Activation Services (WAS). What should you do?

- A. Write hosting code for the WCF service.
- B. Add a reference to the custom service host in the web.config file.
- C. Add code to instantiate the custom service host from within the main procedure of the WCF service.
- D. Create a custom service host factory that instantiates the custom service host. Include a reference to this factory in the .svc file.

Answer: D

Question: 75

You are creating a Windows Communication Foundation service by using Microsoft .NET Framework 3.5. You write the following XML code fragment. <service name="Contoso.Exams.ExamService" behaviorConfiguration="ExamServiceBehavior">
<host> <baseAddresses> <add
baseAddress="http://localhost:8000/ServiceModelExam/service"/> </baseAddresses> </host>
</service> You need to add an endpoint definition to the service configuration for the URL
http://localhost:8000/ServiceModelExam/service to expose the Contoso.Exams.IExam service
contract. Which definition should you add?

- A. <endpoint address="" binding="wsHttpBinding" contract="Contoso.Exams.IExam" />
- B. <endpoint address="/service" binding="wsHttpBinding" contract="Contoso.Exams.IExam" />
- C. <endpoint address="/service" binding="basicHttpBinding" contract="Contoso.Exams.IExam" />
- D. <endpoint address="http: //localhost:8000/ServiceModelExam/service"
binding="basicHttpBinding" contract="IExam" />

Answer: A