



## **70-551**

(UPGRADE: MCAD Skills to MCPD Web Developer by Using the Microsoft .NET Framework)

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## Microsoft 70-551(VB)

### Question: 1

You create an application for your business partners to submit purchase orders. The application deserializes XML documents sent by your partners into instances of an object named PurchaseOrder. You need to modify the application so that it collects details if the deserialization process encounters any XML content that fails to map to public members of the PurchaseOrder object. What should you do?

- A. Define and implement an event handler for the XmlSerializer.UnknownNode event.
- B. Define a class that inherits from XmlSerializer and overrides the XmlSerialize.FromMappings method.
- C. Apply an XmlInclude attribute to the PurchaseOrder class definition.
- D. Apply an XmlIgnore attribute to the PurchaseOrder class definition.

Answer: A

### Question: 2

You are creating a class that performs complex financial calculations. The class contains a method named GetCurrentRate that retrieves the current interest rate and a variable named currRate that stores the current interest rate. You write serialized representations of the class. You need to write a code segment that updates the currRate variable with the current interest rate when an instance of the class is deserialized. Which code segment should you use?

- A. `<OnSerializing> _Friend Sub UpdateValue (ByVal context As StreamingContext) currRate = GetCurrentRate()End Sub`
- B. `<OnSerializing> _ Friend Sub UpdateValue(ByVal info As SerializationInfo) info.AddValue("currentRate", GetCurrentRate())End Sub`
- C. `<OnDeserializing> _ Friend Sub UpdateValue(ByVal info As SerializationInfo) info.AddValue("currentRate", GetCurrentRate())End Sub`
- D. `<OnDeserialized> _Friend Sub UpdateValue (ByVal context As StreamingContext) currRate = GetCurrentRate()End Sub`

Answer: D

### Question: 3

You create a class library that contains the class hierarchy defined in the following code segment. (Line numbers are included for reference only.)

2

**01 Public Class Group 02 Public Employees As Employee() 03 End Class 04 05 Public Class Employee 06 Public Name As String 07 End Class 08 09 Public Class Manager 10 Inherits Employee 11 Public Level As Integer 12 End Class** You create an instance of the Group class. You populate the fields of the instance. When you attempt to serialize the instance by using the Serialize method of the XmlSerializer class, you receive **InvalidOperationException**. You also receive the following error message: "There was an error generating the XML document." You need to modify the code segment so that you can successfully serialize instances of the Group class by using the XmlSerializer class. You also need to ensure that the XML output contains an element for all public fields in the class hierarchy. What should you do?

- A. Insert the following code between lines 1 and 2 of the code segment:  
`<XmlArrayItem(Type:=GetType(Employee))> _ <XmlArrayItem(Type:=GetType(Manager))> _`
- B. Insert the following code between lines 1 and 2 of the code segment:  
`<XmlElement(Type:=GetType(Employee))> _`
- C. Insert the following code between lines 1 and 2 of the code segment:  
`<XmlArray(ElementName:="Employees")> _`
- D. Insert the following code between lines 5 and 6 of the code segment:  
`<XmlElement(Type:=GetType(Employee))>` and insert the following code between lines 10 and 11 of the code segment: `<XmlElement(Type:=GetType(Manager))>`

Answer: A

Question: 4

**You are writing a method to compress an array of bytes. The bytes to be compressed are passed to the method in a parameter named document. You need to compress the contents of the incoming parameter. Which code segment should you use?**

- A. `Dim inStream As New MemoryStream(document) Dim zipStream As New GZipStream(_inStream, CompressionMode.Compress) Dim result(document.Length) As Byte zipStream.Write(result, 0, result.Length) Return result`
- B. `Dim objStream As New MemoryStream(document) Dim zipStream As New GZipStream(_objStream, CompressionMode.Compress) zipStream.Write(document, 0, document.Length) zipStream.Close() Return objStream.ToArray`
- C. `Dim outStream As New MemoryStream Dim zipStream As New GZipStream(_outStream, CompressionMode.Compress) zipStream.Write(document, 0, document.Length) zipStream.Close() Return outStream.ToArray`
- D. `Dim objStream As New MemoryStream(document) Dim zipStream As New GZipStream(_objStream, CompressionMode.Compress) Dim outStream As New MemoryStream Dim b As Integer While (b = zipStream.ReadByte) outStream.WriteByte(CByte(b)) End While Return outStream.ToArray`

3

Answer: C

Question: 5

You are writing a method to compress an array of bytes. The array is passed to the method in a parameter named document. You need to compress the incoming array of bytes and return the result as an array of bytes. Which code segment should you use?

- A. Dim objStream As New MemoryStream(document)Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)Dim result(document.Length) As ByteobjDeflate.Write(result, 0, result.Length)Return result
- B. Dim objStream As New MemoryStream(document)Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)objDeflate.Write(document, 0, document.Length)objDeflate.Close()Return objStream.ToArray
- C. Dim objStream As New MemoryStream()Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)objDeflate.Write(document, 0, document.Length)objDeflate.Close()Return objStream.ToArray
- D. Dim objStream As New MemoryStream()Dim objDeflate As New DeflateStream(objStream, CompressionMode.Compress)Dim outputStream As New MemoryStreamDim b As IntegerWhile (b = objDeflate.ReadByte) outputStream.WriteByte(CByte(b))End WhileReturn outputStream.ToArray

Answer: C

Question: 6

You are creating an application that provides information about the local computer. The application contains a form that lists each logical drive along with the drive properties, such as type, volume label, and capacity. You need to write a procedure that retrieves properties of each logical drive on the local computer. What should you do? To answer, move the three appropriate

Retrieve an instance of the FileSystemInfo class.

Retrieve an instance of the DriveInfo class.

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

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

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

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

Answer:

Actions	Answer Area
Configure SQL Server logons for Windows users and groups, and configure SQL Server to authenticate users by using Windows accounts only.	Configure SQL Server logons for Windows users and groups, and configure SQL Server to authenticate users by using Windows accounts only.
Configure SQL Server logons for SQL Server internal users and roles, and configure SQL Server to authenticate users by using mixed mode.	
Create connection strings that name the server and database, and use a designated SQL Server logon and password. Store connection strings in the Web.config file.	Create connection strings that name the server and database and use integrated security = true. Store connection strings in the Web.config file.
Create connection strings that name the server and database and use integrated security = true. Store connection strings in the Web.config file.	
Create a standard ODBC/OLE-DB data source name that uses integrated security.	Access SQL Server by using the System.Data.SqlClient namespace classes and retrieve the connection string by using the System.Configuration.WebConfigurationManager class.
Create a standard ODBC/OLE-DB data source name that uses a designated SQL Server logon and password.	
Access SQL Server by using the System.Data.SqlClient namespace classes and retrieve the connection string by using the System.Configuration.WebConfigurationManager class.	
Access SQL Server by using the System.Data.OdbcClient namespace classes and retrieve the connection string by using the System.Configuration.WebConfigurationManager class.	

Question: 7

**You are changing the security settings of a file named MyData.xml. You need to preserve the existing inherited access rules. You also need to prevent the access rules from inheriting changes in the future. Which code segment should you use?**

- A. `Dim objSecurity As New FileSecurity( _ "MyData.xml", AccessControlSections.All)objSecurity.SetAccessRuleProtection(True, True)File.SetAccessControl("MyData.xml", objSecurity)`
- B. `Dim objSecurity As New FileSecurity()objSecurity.SetAccessRuleProtection(True, True)File.SetAccessControl("MyData.xml", objSecurity)`
- C. `Dim objSecurity As FileSecurity = _File.GetAccessControl("MyData.xml")objSecurity.SetAccessRuleProtection(True, True)`
- D. `Dim objSecurity As FileSecurity = _File.GetAccessControl("MyData.xml")objSecurity.SetAuditRuleProtection(True, True)File.SetAccessControl("myData.xml", objSecurity)`

Answer: A

Question: 8

5

**You are creating an assembly named Assembly1. Assembly1 contains a public method. The global cache contains a second assembly named Assembly2. You must ensure that the public method is only called from Assembly2. Which permission class should you use?**

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

Answer: D

Question: 9

**You create a DirectorySecurity object for the working directory. You need to identify the user accounts and groups that have read and write permissions. Which method should you use on the DirectorySecurity object?**

- A. the GetAuditRules method
- B. the GetAccessRules method
- C. the AccessRuleFactory method
- D. the AuditRuleFactory method

Answer: B

Question: 10

**You are developing an application that runs by using the credentials of the end user. Only users who are members of the Administrator group get permission to run the application. You write the following security code to protect sensitive data within the application. Dim blnAdmin As Boolean = False Dim objRole As WindowsBuiltInRole = \_ WindowsBuiltInRole.Administrator If blnAdmin = False Then Throw New Exception("User not permitted") End If You need to add a code segment to this security code to ensure that the application throws an exception if a user is not a member of the Administrator group. Which code segment should you use?**

- A. Dim objUser As WindowsPrincipal = \_DirectCast(Thread.CurrentPrincipal, WindowsPrincipal)blnAdmin = objUser.IsInRole(objRole)
- B. Dim objUser As WindowsIdentity = WindowsIdentity.GetCurrent For Each objGroup As IdentityReference In objUser.Groups Dim objAccount As NTAccount = \_ DirectCast(objGroup.Translate( \_ Type.GetType("NTAccount")), NTAccount)blnAdmin = objGroup.Value.Equals(objRole)Next
- C. Dim objUser As GenericPrincipal = \_DirectCast(Thread.CurrentPrincipal, GenericPrincipal)blnAdmin = objUser.IsInRole(objRole.ToString)

```
D. Dim objUser As WindowsIdentity = _DirectCast(Thread.CurrentPrincipal.Identity,
WindowsIdentity)blnAdmin = objUser.Name.EndsWith("Administrator")
```

Answer: A

Question: 11

**You are developing an auditing application to display the trusted ClickOnce applications that are installed on a computer. You need the auditing application to display the origin of each trusted application. Which code segment should you use?**

- A. Dim objTrusts As ApplicationTrustCollectionobjTrusts = ApplicationSecurityManager.UserApplicationTrustsFor Each objTrust As ApplicationTrust In objTrusts Console.WriteLine(objTrust.ToString)Next
- B. Dim objTrusts As ApplicationTrustCollectionobjTrusts = ApplicationSecurityManager.UserApplicationTrustsFor Each objTrust As ApplicationTrust In objTrusts Console.WriteLine(objTrust.ExtraInfo.ToString)Next
- C. Dim objTrusts As ApplicationTrustCollectionobjTrusts = ApplicationSecurityManager.UserApplicationTrustsFor Each objTrust As ApplicationTrust In objTrusts Console.WriteLine(objTrust.ApplicationIdentity.FullName.ToString)Next
- D. Dim objTrusts As ApplicationTrustCollectionobjTrusts = ApplicationSecurityManager.UserApplicationTrustsFor Each objTrust As Object In objTrusts Console.WriteLine(objTrust.ToString)Next

Answer: C

Question: 12

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

- A. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetPrincipalPolicy( \_ PrincipalPolicy.WindowsPrincipal)
- B. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetThreadPrincipal(New WindowsPrincipal(Nothing))
- C. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetAppDomainPolicy( \_ PolicyLevel.CreateAppDomainLevel())
- D. Dim objDomain As AppDomain = AppDomain.CurrentDomainobjDomain.SetPrincipalPolicy( \_ PrincipalPolicy.UnauthenticatedPrincipal)



Answer: D

Question: 13

You are developing a client application for a network. You create a TcpClient object named client. You need to ensure that the client uses Transport Layer Security 1.0 protocol.

- A. Dim objSSL As New SslStream(client.GetStream(), False, \_ SslProtocols.Tls12)
- B. Dim objSSL As New SslStream(client.GetStream(), False, \_ SslProtocols.Tls1)
- C. Dim objSSL As New SslStream(client.GetStream(), False, \_ SslProtocols.Tls12)
- D. Dim objSSL As New SslStream(client.GetStream(), False, \_ SslProtocols.Tls1)

Information on a TcpClient object using the Transport

ver(certificate,  
ver(certificate,  
ver(certificate,  
ver(certificate,

Answer: D

Question: 14

You are developing a client application for a network. You need to ensure that all callers have the necessary permissions to execute your method. Which of the following is the correct declarative security statement that you must ensure the callers execute?

- A. <SecurityPermissionFlags:=SecurityPermissionFlags.All>
- B. <SecurityPermissionFlags:=SecurityPermissionFlags.All>
- C. <SecurityPermissionFlags:=SecurityPermissionFlags.All>
- D. <SecurityPermissionFlags:=SecurityPermissionFlags.All>

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ne callers execute

Answer: A

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