



**70-552(VB)**

**70-552 VB**

Q&A

DEMO Version

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**QUESTION 1**

You are creating a Windows Form that includes a TextBox control named txtDate. When a user right-clicks within the text box, you want the application to display a MonthCalendar control. You need to implement a context menu that provides this functionality. What should you do?

- A. Add the following code to the form initialization.  

```
Dim cal As New MonthCalendar()
Dim mnuContext As New ContextMenuStrip()
Dim host As New ToolStripControlHost(mnuContext)
txtDate.ContextMenuStrip = mnuContext
```
- B. Add the following code to the form initialization.  

```
Dim mnuContext As New ContextMenuStrip()
Dim cal As New MonthCalendar()
Dim host As New ToolStripControlHost(cal)
mnuContext.Items.Add(host)
txtDate.ContextMenuStrip = mnuContext
```
- C. Add the following code to the form initialization.  

```
Dim ctr As New ToolStripContainer()
Dim cal As New MonthCalendar()
ctr.ContentPanel.Controls.Add(cal)
txtDate.Controls.Add(ctr)
Add a MouseClick event handler for the TextBox control that contains the following code.
If e.Button = MouseButtons.Right Then
    txtDate.Controls(0).Show()
End If
```
- D. Add a MouseClick event handler for the TextBox control that contains the following code.  

```
If e.Button = MouseButtons.Right Then
    Dim mnuContext As New ContextMenuStrip()
    Dim cal As New MonthCalendar()
    Dim host As New ToolStripControlHost(cal)
    mnuContext.Items.Add(host)
    txtDate.ContextMenuStrip = mnuContext
End If
```

**Answer: B**

**QUESTION 2**

You are creating a Windows Forms application. You set the FlatAppearance.MouseOverBackColor property of a button to Blue. When testing the application, you notice that the background color does not change when you move the pointer over the button. You need to set the properties of the button so that the background color for the button changes to blue when the pointer moves over the button. What should you do?

- A. Set the FlatStyle property to FlatStyle.Flat.
- B. Set the FlatStyle property to FlatStyle.System.
- C. Move the set statement for the FlatAppearance.MouseOverBackColor property to the Paint event.
- D. Set the UseVisualStyleBackColor property to False.

**Answer: A**

**QUESTION 3**

You are customizing a Windows Form. You need to add an input control that provides AutoComplete suggestions to the user as the user types. Which two controls can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. TextBox control set to SingleLine mode
- B. TextBox control set to MultiLine mode
- C. ComboBox control
- D. RichTextBox control
- E. MaskedTextBox control

**Answer: AC**

**QUESTION 4**

You are creating a Windows Form. You add a TableLayoutPanel control named pnlLayout to the form. You set the properties of pnlLayout so that it will resize with the form. You need to create a three-column layout that has fixed left and right columns. The fixed columns must each remain 50 pixels wide when the form is resized. The middle column must fill the remainder of the form width when the form is resized. You add the three columns in the designer. Which code segment should you use to format the columns at run time?

- A. `pnlLayout.ColumnStyles.Clear()``pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.Absolute, 50.0F))`  
`pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.AutoSize, 100.0F))``pnlLayout.ColumnStyles.Add`  
`(New ColumnStyle(SizeType.Absolute, 50.0F))`
- B. `pnlLayout.ColumnStyles(0).Width = 50.0F``pnlLayout.ColumnStyles(0).SizeType = SizeType.`  
`Absolute``pnlLayout.ColumnStyles(2).Width = 50.0F``pnlLayout.ColumnStyles(2).SizeType = SizeType.`  
`Absolute`
- C. `pnlLayout.ColumnStyles(0).Width = 50.0F``pnlLayout.ColumnStyles(0).SizeType = SizeType.`  
`Absolute``pnlLayout.ColumnStyles(1).Width = 100.0F``pnlLayout.ColumnStyles(1).SizeType = SizeType.`  
`AutoSize``pnlLayout.ColumnStyles(2).Width = 50.0F``pnlLayout.ColumnStyles(2).SizeType = SizeType.`  
`Absolute`
- D. `pnlLayout.ColumnStyles.Clear()``pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.Absolute, 50.0F))`  
`pnlLayout.ColumnStyles.Add(New ColumnStyle(SizeType.Percent, 100.0F))``pnlLayout.ColumnStyles.Add`  
`(New ColumnStyle(SizeType.Absolute, 50.0F))`

**Answer: D**

#### QUESTION 5

You are creating a Windows Form that contains several ToolStrip controls. You need to add functionality that allows a user to drag any ToolStrip control from one edge of the form to another. What should you do?

- A. Configure a ToolStripContainer control to fill the form. Add the ToolStrip controls to the ToolStripContainer control.
- B. Configure a Panel control to fill the form. Set the Anchor properties of the ToolStrip controls to Top, Bottom, Left, Right.
- C. Add the ToolStrip controls to another ToolStrip control that is hosted by a ToolStripControlHost control.
- D. Add the ToolStrip controls to the form. Set the Anchor properties of the ToolStrip controls to Top, Bottom, Left, Right. Set the FormBorderStyle property of the form to SizableToolWindow.

**Answer: A**

#### QUESTION 6

You are creating a Windows Forms application. You add an ErrorProvider component named erpErrors and a DateTimePicker control named dtpStartDate to the application. The application also contains other controls. You need to configure the application to display an error notification icon next to dtpStartDate when the user enters a date that is greater than today's date. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. For the Validating event of dtpStartDate, create an event handler named VerifyStartDate.
- B. For the Validated event of dtpStartDate, create an event handler named VerifyStartDate.
- C. In the Properties Window for dtpStartDate, set the value of Error on erpErrors to Date out of range.
- D. In VerifyStartDate, call `erpErrors.SetError(dtpStartDate, "Date out of range")` if the value of `dtpStartDate.Value` is greater than today's date.
- E. In VerifyStartDate, call `erpErrors.SetError(dtpStartDate, null)` if the `dtpStartDate.Value` is greater than today's date.

**Answer: AE**

**QUESTION 7**

You are modifying a Windows Forms application. The application consists of a main window with many different controls. All of the controls provide tool tips that use the default ToolTip control settings. One group of controls provides tool tips that show regulatory guidance for the user. Users want the wait time when reading the tool tips and navigating among them to be minimal. You need to ensure that this group of controls provides short delays before the tool tips appear. What should you do?

- A. Set the AutoPopDelay property of the ToolTip control to 0 and the InitialDelay property to 100.
- B. Set the AutomaticDelay property of the ToolTip control to 0.
- C. Set the InitialDelay and ReshowDelay properties of the ToolTip control to 100.
- D. Set the AutoPopDelay property of the ToolTip control to 100.

**Answer: C**

**QUESTION 8**

You want to execute an event handler asynchronously from a Windows Form. You need to execute a method named WorkHandler by using an instance of the BackgroundWorker component named bgwExecute. Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

- A. Dim work As New EventHandler(AddressOf WorkHandler)
- B. Dim work As New ThreadStart(AddressOf WorkHandler)
- C. AddHandler bgwExecute.DoWork, AddressOf WorkHandler
- D. bgwExecute.RunWorkerAsync()
- E. bgwExecute.RunWorkerAsync(work)

**Answer: CD**

**QUESTION 9**

You are customizing a Windows Form to use a BackgroundWorker component named bgwExecute. bgwExecute performs a database operation in an event handler named WorkHandler. You need to ensure that users can see the progress of the database operation by viewing a progress bar named pbProgress. You want the progress bar to appear when the database operation is 50 percent complete. Which code segment should you use?

- A. `Public Sub StartBackground() bgwExecute.WorkerReportsProgress = True AddHandler bgwExecute.  
ProgressChanged, AddressOf ProgressHandler bgwExecute.RunWorkerAsync()End Sub Sub WorkHandler  
(ByVal sender As Object, ByVal e As DoWorkEventArgs) bgwExecute.ReportProgress(50)End Sub Sub  
ProgressHandler(ByVal sender As Object, ByVal e As _ ProgressChangedEventArgs) pbProgress.Value =  
e.ProgressPercentageEnd Sub`
- B. `Public Sub StartBackground() bgwExecute.WorkerReportsProgress = True AddHandler bgwExecute.  
ProgressChanged, AddressOf ProgressHandler Dim t As New ThreadStart(AddressOf WorkHandler)  
bgwExecute.RunWorkerAsync(t)End Sub Sub WorkHandler() bgwExecute.ReportProgress(50)End Sub  
Sub ProgressHandler(ByVal sender As Object, ByVal e As _ ProgressChangedEventArgs) pbProgress.  
Value = e.ProgressPercentageEnd Sub`
- C. `Public Sub StartBackground() bgwExecute.WorkerReportsProgress = True AddHandler bgwExecute.  
ProgressChanged, AddressOf ProgressHandler Dim t As New Thread(New ThreadStart(AddressOf  
WorkHandler)) bgwExecute.RunWorkerAsync(t)End Sub Sub WorkHandler() bgwExecute.ReportProgress  
(50)End Sub Sub ProgressHandler(ByVal sender As Object, ByVal e As _ ProgressChangedEventArgs)  
pbProgress.Value = e.ProgressPercentageEnd Sub`

```
D. Public Sub StartBackground() bgwExecute.WorkerReportsProgress = True AddHandler bgwExecute.
DoWork, AddressOf WorkHandler AddHandler bgwExecute.ProgressChanged, AddressOf
ProgressHandler bgwExecute.RunWorkerAsync()End Sub Sub WorkHandler(ByVal sender As Object,
ByVal e As DoWorkEventArgs) bgwExecute.ReportProgress(50)End Sub Sub ProgressHandler(ByVal
sender As Object, ByVal e As _ ProgressChangedEventArgs) pbProgress.Value = e.
ProgressPercentageEnd Sub
```

**Answer: D**

### QUESTION 10

You are customizing a Windows Form to update a database asynchronously in a method named WorkHandler. You need to ensure that the form displays a message box to the user that indicates the success or failure of the update. Which code segment should you use?

- A. Private Sub StartBackgroundProcess() AddHandler bgwExecute.DoWork, AddressOf WorkHandler AddHandler bgwExecute.RunWorkerCompleted, AddressOf CompletedHandler bgwExecute.RunWorkerAsync()End Sub Private Sub CompletedHandler(ByVal sender As Object, ByVal e As RunWorkerCompletedEventArgs) Dim result As Boolean = CType(e.Result, Boolean) If result = True Then MessageBox.Show("Update was successful") Else MessageBox.Show("Update failed") End IfEnd Sub Private Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs) '... e.Result = TrueEnd Sub
- B. Private Sub StartBackgroundProcess() AddHandler bgwExecute.ProgressChanged, AddressOf CompletedHandler Dim tsBackground As New ThreadStart(AddressOf WorkHandler) bgwExecute.RunWorkerAsync(tsBackground)End Sub Private Sub ProgressHandler(ByVal sender As Object, ByVal e As ProgressChangedEventArgs) Dim result As Boolean = CType(e.UserState, Boolean) If result = True Then MessageBox.Show("Update was successful") Else MessageBox.Show("Update failed") End IfEnd Sub Private Sub WorkHandler() '... bgwExecute.ReportProgress(100, True)End Sub
- C. Private Sub StartBackgroundProcess() AddHandler bgwExecute.RunWorkerCompleted, AddressOf CompletedHandler Dim tsBackground As New ThreadStart(AddressOf WorkHandler) bgwExecute.RunWorkerAsync(tsBackground)End Sub Private Sub CompletedHandler(ByVal sender As Object, ByVal e As RunWorkerCompletedEventArgs) Dim result As Boolean = CType(e.Result, Boolean) If result = True Then MessageBox.Show("Update was successful") Else MessageBox.Show("Update failed") End IfEnd Sub Private Sub WorkHandler() '... bgwExecute.ReportProgress(100, True)End Sub
- D. Private Sub StartBackgroundProcess() AddHandler bgwExecute.DoWork, AddressOf WorkHandler AddHandler bgwExecute.RunWorkerCompleted, AddressOf CompletedHandler bgwExecute.RunWorkerAsync()End Sub Private Sub CompletedHandler(ByVal sender As Object, ByVal e As RunWorkerCompletedEventArgs) Dim result As Boolean = CType(e.Result, Boolean) If result = True Then MessageBox.Show("Update was successful") Else MessageBox.Show("Update failed") End IfEnd Sub Private Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs) '... bgwExecute.ReportProgress(100, True)End Sub

**Answer: A**

**Answer: D**

**QUESTION 12**

You are customizing a Windows Form to update a database asynchronously by using an instance of a BackgroundWorker component named bgwExecute. You start the component by using the following code.

```
Private Sub StartBackgroundProcess()
AddHandler bgwExecute.DoWork, _
New DoWorkEventHandler(AddressOf WorkHandler)
AddHandler bgwExecute.RunWorkerCompleted, _
New RunWorkerCompletedEventHandler(AddressOf _
CompletedHandler)
AddHandler bgwExecute.ProgressChanged, _
New ProgressChangedEventHandler(AddressOf ProgressChanged) bgwExecute.RunWorkerAsync()
End Sub
```

If the UpdateDB method that is called by the BackgroundWorker component returns the value False, you need to display a message box to the user that indicates that the update failed. Which code segment should you use?

- A. Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs) If Not UpdateDB() Then MessageBox.Show("Update failed") End IfEnd Sub
- B. Sub CompletedHandler(ByVal sender As Object, ByVal e As \_ RunWorkerCompletedEventArgs) If Not UpdateDB() Then MessageBox.Show("Update failed") End IfEnd Sub
- C. Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs) e.Result = UpdateDB()End Sub Sub CompletedHandler(ByVal sender As Object, ByVal e As \_ RunWorkerCompletedEventArgs) If Not CBool(e.Result) Then MessageBox.Show("Update failed") End IfEnd Sub
- D. Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs) e.Result = UpdateDB()End Sub Sub CompletedHandler(ByVal sender As Object, ByVal e As \_ RunWorkerCompletedEventArgs) If Not CBool(e.Result) Then bgwExecute.ReportProgress(0) End IfEnd Sub Sub ProgressChanged(ByVal sender As Object, ByVal e As \_ ProgressChangedEventArgs) If e.ProgressPercentage = 0 Then MessageBox.Show("Update failed") End IfEnd Sub

**Answer: C**

**QUESTION 13**

You are customizing a Windows Form to asynchronously update a database. You need to ensure that the form displays a message box to the user that indicates the success or failure of the update. Which three code segments should you use? (Each correct answer presents part of the solution. Choose three.)

- A. Private Sub StartBackgroundProcess() AddHandler bgwExecute.DoWork, AddressOf WorkHandler AddHandler bgwExecute.RunWorkerCompleted, AddressOf CompletedHandler bgwExecute.RunWorkerAsync()End Sub
- B. Private Sub StartBackgroundProcess() AddHandler bgwExecute.ProgressChanged, AddressOf CompletedHandler Dim tsBackground As New ThreadStart(AddressOf WorkHandler) bgwExecute.RunWorkerAsync(tsBackground)End Sub
- C. Private Sub StartBackgroundProcess() AddHandler bgwExecute.RunWorkerCompleted, AddressOf CompletedHandler Dim tsBackground As New ThreadStart(AddressOf WorkHandler) bgwExecute.RunWorkerAsync(tsBackground)End Sub
- D. Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs) ... e.Result = TrueEnd Sub
- E. Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs) ... bgwExecute.ReportProgress(100, True)End Sub

- F. Sub CompletedHandler(ByVal sender As Object, ByVal e As \_ RunWorkerCompletedEventArgs) Dim result As Boolean = CBool(e.Result) If result Then MessageBox.Show("Update was successful") Else MessageBox.Show("Update failed") End IfEnd Sub
- G. Sub ProgressHandler(ByVal sender As Object, ByVal e As \_ ProgressChangedEventArgs) Dim result As Boolean = CBool(e.UserState) If result Then MessageBox.Show("Update was successful") Else MessageBox.Show("Update failed") End IfEnd Sub

**Answer:** ADF

#### QUESTION 14

You are creating an application named App1. You use ClickOnce deployment to distribute App1.exe and multiple assemblies. Some users require only some of the functionality in App1. You need to limit the size of the initial download of the application. You also need to ensure that users can download the assemblies on demand. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Mark each dependency in App1.exe.manifest as optional.
- B. Mark each dependency in App1.application as optional.
- C. Create an event handler for the AppDomain.ResourceResolve event named ResolveAssembly.
- D. Create an event handler for the AppDomain.AssemblyLoad event named ResolveAssembly.
- E. In the ResolveAssembly event handler, set the ApplicationDeployment.CurrentDeployment.ActivationUri property to the location of your required assembly.
- F. In the ResolveAssembly event handler, call ApplicationDeployment.DownloadFiles and pass in the name of the assembly you want.

**Answer:** ACF

#### QUESTION 15

You create a Windows-based application that requires the use of a COM component. You need to create a ClickOnce deployment package to distribute the application from an Internet Web site. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Set the Isolated property of the COM component references in the application project to False.
- B. Set the Isolated property of the COM component references in the application project to True.
- C. Verify that the user is using Microsoft Windows XP.
- D. Verify that the user is using Microsoft Windows 2000.
- E. Assign RegistryPermission to the application.

**Answer:** BC

#### QUESTION 16

You are configuring a ClickOnce deployment that allows users to install your application from the Internet zone under partial trust permissions. You want the application to access data that resides on the same remote server from which the application is installed. You need to add one or more types of data access that are allowed under partial trust permissions to your application. Which type or types of data access are allowed? (Choose all that apply.)

- A. data access through HTTP with System.Net.WebClient
- B. data access through XML Web services
- C. data access through System.Data.SqlClient

D. data access through HTTP with System.Net.HttpWebRequest

**Answer:** ABD

### QUESTION 17

You are creating a ClickOnce application that requires elevated permissions by default. You need to identify the default security zones for each deployment location. Which default security zone is appropriate to use in each deployment location? To answer, drag the appropriate security zones to the correct deployment locations in the answer area. Each security zone can be used more than once.

Security Zones	Answer Area										
Internet zone	<table border="1"> <thead> <tr> <th>Security zone</th> <th>Deployment location</th> </tr> </thead> <tbody> <tr> <td><input type="text"/></td> <td>Launched from the Web</td> </tr> <tr> <td><input type="text"/></td> <td>Installed from the Web by using SSL</td> </tr> <tr> <td><input type="text"/></td> <td>Installed from a password-protected network share</td> </tr> <tr> <td><input type="text"/></td> <td>Installed from CD-ROM</td> </tr> </tbody> </table>	Security zone	Deployment location	<input type="text"/>	Launched from the Web	<input type="text"/>	Installed from the Web by using SSL	<input type="text"/>	Installed from a password-protected network share	<input type="text"/>	Installed from CD-ROM
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<input type="text"/>	Installed from a password-protected network share										
<input type="text"/>	Installed from CD-ROM										
Intranet zone											
Trusted sites zone											
My Computer zone (full trust)											

- A.
- B.
- C.
- D.

**Answer:**

### QUESTION 18

A Windows Forms application reads the following XML file.

```
<?xml version="1.0"?>
<x:catalog xmlns:x="urn:books">
<book id="bk101">
<author>Gambardella, Matthew</author>
<title>XML Developer's Guide</title>
</book>
<book id="bk102">
<author>Ralls, Kim</author>
<title>Midnight Rain</title>
</book>
</x:catalog>
```

The form initialization loads this file into an XmlDocument object named docBooks. You need to populate a ListBox control named lstBooks with the concatenated book ID and title of each book. Which code segment should you use?

- A. Dim elements As XmlNodeList = docBooks.GetElementsByTagName("book")Dim node As XmlElementFor Each node In elements Dim s As String = node.GetAttribute("id") + " - " s = s + node.SelectSingleNode("title").InnerText lstBooks.Items.Add(s)Next node

- B. Dim elements As XmlNodeList = docBooks.GetElementsByTagName("book")Dim node As XmlElementFor Each node In elements Dim s As String = node.SelectSingleNode("id").ToString() + " - " s = s + node. GetAttribute("title") lstBooks.Items.Add(s)Next node
- C. Dim elements As XmlNodeList = docBooks.GetElementsByTagName("book")Dim node As XmlElementFor Each node In elements Dim s As String = node.GetAttribute("id") + " - " s = s + node.SelectSingleNode ("title").Value lstBooks.Items.Add(s)Next node
- D. Dim elements As XmlNodeList = docBooks.GetElementsByTagName("book")Dim node As XmlElementFor Each node In elements lstBooks.Items.Add(node.InnerXml)Next node

**Answer: A**

### QUESTION 19

A Windows Forms application contains the following code segment.

```
Dim SQL As String = "SELECT EmployeeID, LastName, FirstName FROM Employees" Dim da As New
SqlDataAdapter(SQL, connStr)
Dim dt As New DataTable()
da.MissingSchemaAction = MissingSchemaAction.AddWithKey
Dim bld As New SqlCommandBuilder(da)
da.Fill(dt)
```

The application allows the user to add rows to the data table. The application will propagate these additions to the database. If the addition of any row fails, the other rows must still be added. The code must log how many new rows failed to be added. You need to propagate the additions to the database and log a failed count. Which code segment should you use?

- A. da.ContinueUpdateOnError = Trueda.Update(dt)Dim dtErrors As DataTable = dt.GetChanges (DataRowState.Unchanged)Trace.WriteLine((dtErrors.Rows.Count.ToString() + " rows not added."))
- B. da.ContinueUpdateOnError = Falseda.Update(dt)Dim dtErrors As DataTable = dt.GetChanges (DataRowState.Unchanged)Trace.WriteLine((dtErrors.Rows.Count.ToString() + " rows not added."))
- C. da.ContinueUpdateOnError = Trueda.Update(dt)Dim rows As DataRow() = dt.GetErrors()Trace.WriteLine ((rows.Length.ToString() + " rows not added."))
- D. da.ContinueUpdateOnError = Falseda.Update(dt)Dim rows As DataRow() = dt.GetErrors()Trace.WriteLine ((rows.Length.ToString() + " rows not added."))

**Answer: C**

### QUESTION 20

You are creating a Windows Forms application. The application loads a data table named dt from a database and modifies each value in the data table.

You add the following code. (Line numbers are included for reference only.)

```
01 Dim row As DataRow
02 For Each row In dt.Rows
03 Dim col As DataColumn
04 For Each col In dt.Columns
06 Trace.WriteLine(str)
07 Next col
08 Next row
```

You need to format the string named str to show the value of the column at the time the data is loaded and the current value in the column. Which code segment should you add at line 05?

- A. Dim str As String = String.Format("Column was {0} is now {1}", row(col), row(col, DataRowVersion.Current))
- B. Dim str As String = String.Format("Column was {0} is now {1}", row(col, DataRowVersion.Default), row(col))
- C. Dim str As String = String.Format("Column was {0} is now {1}", row(col), row(col, DataRowVersion.Proposed))
- D. Dim str As String = String.Format("Column was {0} is now {1}", row(col, DataRowVersion.Original), row(col))

**Answer: D**

#### QUESTION 21

A Windows Forms application loads an XmlDocument from a file named books.xml. You need to validate the XML against a schema that is contained in the books.xsd file when the XML loads. What should you do?

- A. Associate the schema file with an XmlReader. Load the XmlDocument by using the XmlReader.
- B. Add the schema to the Schemas property of the XmlDocument. Call the Load method of the XmlDocument by setting the filename parameter to books.xsd.
- C. Call the Load method of the XmlDocument by setting the filename parameter to books.xsd, and then call the Load method by setting the filename parameter to books.xml.
- D. Call the Load method of the XmlDocument by setting the filename parameter to books.xsd. Programmatically add the attribute xsi:schemaLocation to the root node. Set the value of this attribute to books.xsd.

**Answer: A**

#### QUESTION 22

You are creating a Windows Forms application. The application uses a SqlCommand object named cmd. The cmd object executes the following stored procedure.

```
CREATE PROCEDURE GetPhoneList
AS
BEGIN
SELECT CompanyName, Phone FROM Customers
SELECT CompanyName, Phone FROM Suppliers
END
```

You need to add all returned rows to the ListBox control named lstPhones. Which code segment should you use?

- A. Dim rdr As SqlDataReader = cmd.ExecuteReader() Do While rdr.Read() lstPhones.Items.Add((rdr.GetString(0) + ControlChars.Tab + rdr.GetString(1))) End While Loop While rdr.NextResult()
- B. Dim rdr As SqlDataReader = cmd.ExecuteReader() While rdr.Read() lstPhones.Items.Add((rdr.GetString(0) + ControlChars.Tab + rdr.GetString(1))) End While
- C. Dim rdr As SqlDataReader = cmd.ExecuteReader() While rdr.NextResult() While rdr.Read() lstPhones.Items.Add((rdr.GetString(0) + ControlChars.Tab + rdr.GetString(1))) End While End While
- D. Dim rdr As SqlDataReader = cmd.ExecuteReader() While rdr.NextResult() lstPhones.Items.Add((rdr.GetString(0) + ControlChars.Tab + rdr.GetString(1))) End While

**Answer: A**

#### QUESTION 23

You are creating a Windows Forms application that includes the database helper methods UpdateOrder and UpdateAccount. Each method wraps code that connects to a Microsoft SQL Server 2005 database, executes a Transact-SQL statement, and then disconnects from the database. You must ensure that changes to the

database that result from the UpdateAccount method are committed only if the UpdateOrder method succeeds. You need to execute the UpdateAccount method and the UpdateOrder method. Which code segment should you use?

- A. Using ts As New TransactionScope() UpdateOrder() UpdateAccount() ts.Complete()End Using
- B. Using ts1 As New TransactionScope() UpdateOrder() Using ts2 As New TransactionScope (TransactionScopeOption.RequiresNew) UpdateAccount() ts2.Complete() End Using ts1.Complete()End Using ts1.Complete();
- C. Using ts1 As New TransactionScope() UpdateOrder() Using ts2 As New TransactionScope (TransactionScopeOption.RequiresNew) UpdateAccount() ts2.Complete() End Using ts1.Complete()End Using
- D. Using ts As New TransactionScope(TransactionScopeOption.RequiresNew) UpdateOrder()End UsingUsing ts As New TransactionScope(TransactionScopeOption.Required) UpdateAccount() ts.Complete()End Using

**Answer: A**

#### QUESTION 24

A method in your Windows Forms application executes a stored procedure in a Microsoft SQL Server 2005 database, and then executes a second stored procedure in a second SQL Server 2005 database. You need to ensure that the call to the first stored procedure writes changes only if the call to the second stored procedure succeeds. Installation requirements prohibit you from introducing new components that use the COM+ hosting model. What should you do?

- A. Implement a transactional serviced component.Add methods to this component to encapsulate the connect operation and execution of each stored procedure.Register and use this serviced component.
- B. Add a TransactionScope block.Connect to each database and execute each stored procedure within the TransactionScope block.Call the TransactionScope.Complete method if the call to both stored procedure succeeds.
- C. Connect to both databases.Call the SqlConnection.BeginTransaction method for each connection.Call the SqlTransaction.Commit method on both returned transactions only if both stored procedures succeed.
- D. Add a TryCatchFinally block.Connect to each database and execute each stored procedure in the try block.

**Answer: B**

#### QUESTION 25

You are creating a Windows Forms application that implements a master/detail form by using two DataGridView controls. You populate a dataset with a master table and a details table. You set the DataSource property of the master DataGridView control to the dataset. You set the DataMember property to the name of the master table. You also set the DataSource property of the details DataGridView control to the dataset. You need to ensure that the details DataGridView control displays only the child rows of the selected master row. What should you do?

- A. Add a foreign key constraint to the dataset.Set the DataMember property of the child DataGridView control to the name of the foreign key constraint.
- B. Define a data relation between the master table and details table in the dataset.Set the DataMember property of the child DataGridView to the name of the data relation.
- C. Add a foreign key constraint to the dataset.Set the DataMember property of the child DataGridView control to the name of the details table.
- D. Define a data relation between the master table and details table in the dataset.Bind the details DataGridView control to the dataset.Set the DataMember property of the child DataGridView control to the name of the details table.

**Answer: B**

**QUESTION 26**

You are creating a Windows Forms application. Initialization code loads a DataSet object named ds that includes a table named Users. The Users table includes a column named IsManager. You need to bind the IsManager column to the Checked property of a check box named chkIsManager. Which code segment should you use?

- A. `chkIsManager.DataBindings.Add("Checked", ds, "Users.IsManager")`
- B. `chkIsManager.DataBindings.Add("Checked", ds, "IsManager")`
- C. `chkIsManager.Text = "{Users.IsManager}"chkIsManager.AutoCheck = True`
- D. `Me.DataBindings.Add("chkIsManager.Checked", ds, "Users.IsManager")`

**Answer: A**

**QUESTION 27**

A Windows Forms application contains the following code segment.

```
Dim SQL As String = "SELECT OrderID, ProductID, UnitPrice, Quantity FROM [Order Details]"
Dim da As New SqlDataAdapter(SQL, connStr)
Dim dt As New DataTable()
da.Fill(dt)
```

You need to add a new column to the data table named ItemSubtotal. The ItemSubtotal column must contain the value of the UnitPrice column multiplied by the value of the Quantity column. Which code segment should you use?

- A. `Dim col As New DataColumn("ItemSubtotal")col.DataType = GetType(Decimal)col.Expression = "UnitPrice * Quantity"dt.Columns.Add(col)`
- B. `dt.Compute("UnitPrice * Quantity", "ItemSubtotal")`
- C. `Dim col As New DataColumn("ItemSubtotal")col.DataType = GetType(Decimal)dt.Columns.Add(col)dt.Compute("UnitPrice * Quantity", "ItemSubtotal")`
- D. `Dim col As New DataColumn("ItemSubtotal")col.DataType = GetType(Decimal)col.DefaultValue = "UnitPrice * Quantity"dt.Columns.Add(col)`

**Answer: A**

**QUESTION 28**

You are creating a Windows Forms application to retrieve and modify data. Depending on the installation, the data source can be a Microsoft Access database or a Microsoft SQL Server 2000 or later database. You need to ensure that your application accesses data by automatically using the data provider that is optimized for the data source. What should you do?

- A. Use the ODBC data provider classes.
- B. Use the OLE DB data provider classes.
- C. Use the SQL Server data provider classes.
- D. Use the DbProviderFactory class and related classes.

**Answer: D**

**QUESTION 29**

You are creating a Windows Forms application. The application executes a stored procedure that takes several seconds to complete. The stored procedure is invoked to populate a SqlDataReader object. You need to

ensure that the application remains responsive to the user while the stored procedure is executing. What should you do?

- A. Use the `SqlCommand.BeginExecuteReader` method to call the stored procedure. Retrieve results by using the `EndExecuteReader` method.
- B. Use the `SqlCommand.ExecuteReader` method. Set the behavior parameter of this method to `CommandBehavior.SequentialAccess`.
- C. Create and bind a `SqlDependency` object to a `SqlCommand` object. Call the `SqlCommand.ExecuteReader` method. Associate an `OnChanged` event handler with the `SqlDependency` object. Gather results in the `OnChanged` event handler method.
- D. Set the `Notification` property of a `SqlCommand` object to a `SqlNotificationRequest` object. Call the `SqlCommand.ExecuteReader` method. Gather results on a background thread.

**Answer:** A

### QUESTION 30

You create Microsoft Windows-based applications. You review code for an application that is developed for a bank. You need to test a method named `Deposit` in one of the application components. The following code segment represents the `Deposit` method. (Line numbers are included for reference only.)

```
01 Public Sub Deposit(ByVal amount As Decimal)
03 If Not (amount > 0) Then
04 Throw New Exception("Invalid deposit amountNot ")
05 Else
06 Me.balance += amount
07 End If
08 End Sub
```

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

```
01 <TestMethod(> _
02 Public Sub DepositTest()
03 Dim target As BankAccount = New BankAccount() 'balance will be ZERO
04 Dim amount As Decimal = 100
05 target.Deposit(amount)
06 Assert.Inconclusive("A method that does not return a value cannot be verified.")
07 End Sub
```

You need to change the test method to return a conclusive result. Which line of code should you use to replace the code on line 06?

- A. `Assert.AreEqual(100,target.Balance)`
- B. `Assert.IsTrue(target.Balance <> 100)`
- C. `Debug.Assert(target.Balance = 100,passed)`
- D. `Debug.Assert(target.Balance = 100,failed)`

**Answer:** A

### QUESTION 31

You create Microsoft Windows-based applications. The sales department uses an application that accesses data from a local Microsoft Office Access database. To enable sales representatives to access the application when they are not in the office, you plan to install the application on a terminal server. The application will be accessed by 200 users simultaneously through a terminal services connection. You need to design an appropriate test strategy for the change. Which two tests should you choose? (Each correct answer presents part of the solution. Choose two.)

- A. unit test
- B. load test
- C. integration test
- D. coverage test
- E. Web test

**Answer:** BC

### QUESTION 32

You create Microsoft Windows-based applications. You are designing integration tests for an application that your team is developing. Your team uses an application framework that is developed in-house.

The application consumes the following elements:

Third-party Web services

A third-party API for sending text messages to mobile phones  
 Components from the application framework to access SQL Server databases and e-mail messages  
 Managed code to access flat files in the file system

You need to create a report that lists the components that must be considered for integration testing. Which two components should you include? (Each correct answer presents part of the solution. Choose two.)

- A. Web services
- B. messaging API
- C. database access components from the application framework
- D. messaging components from the application framework
- E. managed code to access the file system

**Answer:** AB

### QUESTION 33

You create Microsoft Windows-based applications.

You receive the following code segment to review. (Line numbers are included for reference only.)

```

01 Partial Public Class frmReceivables
02 Inherits Form
03 Private ds As DataSet
04 Public Sub New()
05 InitializeComponent()
06 End Sub
07 Private Sub New(ByVal sender As Object, ByVal e As EventArgs) 08 Dim cn As SqlConnection = New
SqlConnection(strConnectionString)
09 Dim daInvoices As SqlDataAdapter = New SqlDataAdapter("SELECT * FROM Invoices", cn) 10 Dim
daCustomers As SqlDataAdapter = New SqlDataAdapter("SELECT * FROM Customers", cn)
11 ds = New DataSet("Receivables")
12 daInvoices.Fill(ds)
13 daCustomers.Fill(ds)
14 End Sub
15 End Class

```

The strConnectionString variable is pre-populated from the application configuration file. Query statements will remain unchanged throughout the life cycle of the application. Connection pooling is not being used. This code segment accesses a Microsoft SQL Server 2000 database. The ds dataset is bound to a data grid view so that

users can view and update data in the database. The code currently compiles correctly and works as intended. You need to enhance performance and reliability for this code. Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

- A. Use an ODBC DSN instead of a connection string.
- B. Use OleDbDataAdapter objects instead of SqlDataAdapter objects to populate the dataset.
- C. Add a line of code before line 12 to open the database connection.
- D. Add a Try...Catch block and close the connection in the catch block.
- E. Add a Try...Catch...Finally block and close the connection in the Finally block.

**Answer:** CE

#### QUESTION 34

You create Microsoft Windows-based applications. You create an application that requires users to be authenticated by a domain controller. The application contains a series of processor-intensive method calls that require different database connections. A bug is reported during testing. The bug description states that the application hangs during one of the processor-intensive calls more than 50 percent of the times when the method is executed. Your unit test for the same method was successful. You need to reproduce the bug. Which two factors should you ascertain from the tester? (Each correct answer presents part of the solution. Choose two.)

- A. security credentials of the logged on user
- B. code access security settings
- C. hardware settings
- D. network settings
- E. database settings

**Answer:** CD

#### QUESTION 35

You create Microsoft Windows-based applications. You are creating a sales management application for your company. The application will be used by 250 users on the company's network. In the future, the company will be expanding the user base to include at least 1,000 more users. The application will be stored locally on every computer. The application uses a set of assemblies that are installed in the global assembly cache for business rules. The application retrieves data from a Microsoft SQL Server 2005 database by using a set of methods from a Web service. The SQL Server 2005 database is hosted on a local server. The Web service is maintained at a local IIS 6.0 Server. You need to evaluate which aspects of the physical design can be modified to accommodate more users. Which two aspects should you consider modifying? (Each answer presents part of the solution. Choose two.)

- A. Windows-based application
- B. assemblies in the global assembly cache
- C. database on the SQL Server 2005 server
- D. Web service on the IIS 6.0 Server
- E. number of assemblies installed by the application

**Answer:** CD

#### QUESTION 36

You create Microsoft Windows-based applications. You create a banking application that will be used by the account managers of the bank. You identify a method to simulate the deposit functionality of a savings account.

The method will calculate the final balance when monthly deposit, number of months, and quarterly rate are given. The application requirements state that the following criteria must be used to calculate the balance amount:

Apply the quarterly interest rate to the balance amount of the account every three months. Apply the quarterly interest rate before the monthly deposit is calculated for the third month.

You translate the outlined specification into pseudo code. You write the following lines of code. (Line numbers are included for reference only.)

Method

Public Shared Function SimulateSavings() As Decimal

Input parameters

Dim months As Integer

Dim monthlyPayment As Decimal

Dim quarterlyRate As Decimal

Pseudo code

01 Declare balance variable, initialize it to zero

03 Return balance

You need to insert the appropriate code in line 02. Which code segment should you insert?

- A. 01 Declare integer variable, x02 For x=1 to months/32.1 balance = balance + 3 \* monthlyPayment2.2  
balance = (1 + quarterlyRate) \* balance
- B. 01 Declare integer variable, x02 For x=1 to months/32.1 balance = balance + 2 \* monthlyPayment2.2  
balance = (1 + quarterlyRate) \* balance2.3 balance = balance + monthlyPayment
- C. 01 Declare integer variable, x02 For x=1 to months2.1 balance = balance + monthlyPayment2.2 if x Mod 3  
is 0 then balance = (1 + quarterlyRate) \* balance
- D. 01 Declare integer variable, x02 For x=1 to months2.1 if x Mod 3 is 0 then balance = (1 + quarterlyRate) \*  
balance2.2 balance = balance + monthlyPayment

**Answer: D**

### QUESTION 37

You create Microsoft Windows-based applications. You need to evaluate the design concept of an application.

The application must meet the following requirements:

The application relies on the operating system for authentication. The application minimizes the amount of data sent over the network when connecting to the database. The application exposes data access code so that the future Web-based and mobile applications can reuse them.

The application permits users to view and edit data contained in tables from a Microsoft SQL Server 2005 database.

The application controls access to the SQL Server 2005 database at the table level.

The design contains the following elements:

The SQL Server 2005 database uses the Windows Authentication mode. A database schema that grants rights to the users at the table level. A stored procedure in Transact-SQL that accesses the necessary data required by the application. A Web service that uses a pre-defined credential to access the database and run the stored procedures. A Microsoft Windows-based application that impersonates the logged-on user and calls the Web service to retrieve and update the data.

You need to evaluate the design and recommend appropriately. What should you recommend?

- A. The design meets all the requirements.
- B. Change the Windows-based application to use Windows Authentication.
- C. Change the Web service to impersonate the caller.
- D. Change the database schema to use stored procedures.

**Answer: C**

### QUESTION 38

You create Microsoft Windows-based applications. You are creating a sales management application. This application will permit sales personnel to search for customer information in a Microsoft SQL Server 2005 database. All communication with the database server is done by using an SSL channel.

When a user needs to search for customer information based on a name, the following sequence of actions occurs:

- 1.The user types a name into a text box.
- 2.The user clicks a button to initiate the search.
- 3.The component validates that the value the user types is less than 200 characters.
- 4.The value that is typed is passed as a string to a component.
- 5.The component concatenates the typed value to a Select statement in the Where clause of the component.
- 6.The statement is executed to generate a DataTable object.
- 7.The DataTable object is used to display the results to the user.

You need to identify the risk factor in this application design. What should you conclude?

- A. SQL injection can be used to execute malicious SQL statements.
- B. Code injection can be used to elevate privileges of malicious code.
- C. A buffer overflow can be caused by typing a very large string in the text box.
- D. Canonicalization can be used to add invalid characters to the search string.

**Answer: A**

### QUESTION 39

You create Microsoft Windows-based applications. You are creating an application to manage projects. Your current customers use Microsoft Windows 2000, Windows XP Professional, and Windows Server 2003, in workgroup and domain settings.

The application must meet the following requirements:

- Identify the user for workflow functionality.
- Store data in a central location on your companys network.
- Permit data to be stored locally for offline access.

Your application relies on Windows domainCbased authentication to identify the user without logging on to the application itself. You decide to use Microsoft SQL Server 2005 as the database engine and save the data locally in XML format for offline access. You need to identify the risks that are related to your design. Which risk should you identify?

- A. The use of XML might limit the number of customers who will use the application.
- B. The use of SQL Server 2005 might limit the number of customers who will use the application.

- C. The use of the .NET Framework might limit the number of workstations that can use the application.  
 D. The use of a Windows domain might limit the number of customers who will use the application.

**Answer: D**

#### QUESTION 40

You create Microsoft Windows-based applications. You are creating a mathematics educational application. The application will be used to teach students about numeric series. One of the methods in the application is used to calculate a given member of the Fibonacci series. The method uses recursive calls to perform its calculation. The application calls the method synchronously, and only one instance of the application can be running at a given time. The application requirements state that the method must take less than 5 seconds to process when calculating any of the first 30 members of the Fibonacci series. You profile the application by using instrumentation. During profiling, you perform a call on the method that is used for calculating the 30th member of the Fibonacci series. The profiling report, which shows elapsed time in milliseconds, is shown in the exhibit. (Click the Exhibit button.) You need to evaluate the performance of the application based on the established requirements. What should you conclude?

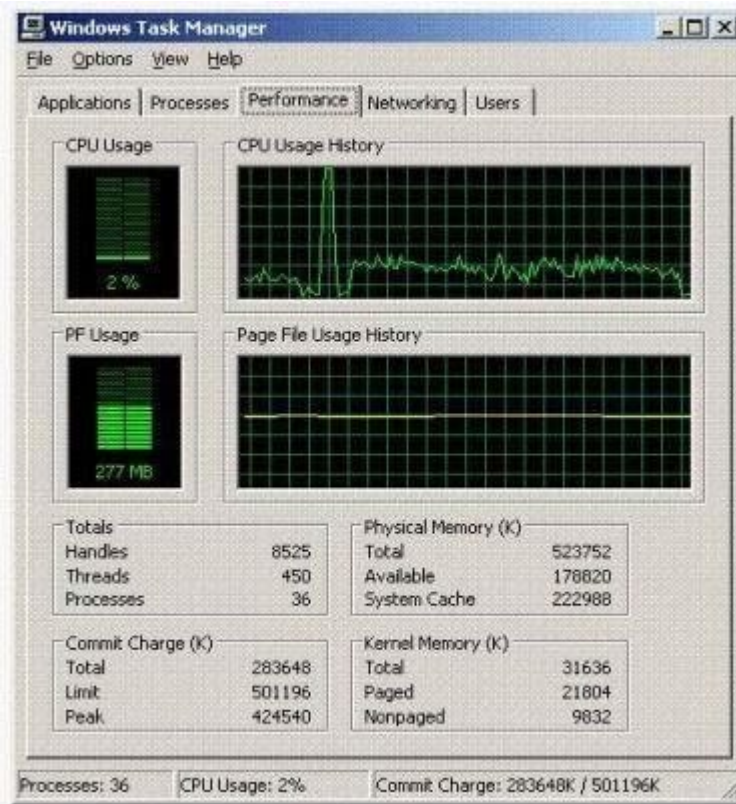
Function Name	Number of Calls	Elapsed Exclusive Time
<b>Performance.exe</b>	<b>1664084</b>	<b>603.513153</b>
Performance.Program.Main()	1	1.280210
Performance.Form1.button1_Click(object, class EventArgs)	1	0.497263
Performance.Form1.Fibonacci(int32)	1664079	593.805579
Performance.Form1..ctor()	1	7.690739
Performance.Form1.InitializeComponent()	1	0.237469
Performance.Form1.Dispose()	1	0.001895
<b>System.Windows.Forms.dll</b>	<b>32</b>	<b>72170.090864</b>
<b>mscorlib.dll</b>	<b>3</b>	<b>0.092323</b>
<b>System.Drawing.dll</b>	<b>6</b>	<b>0.003640</b>

- A. The report is inconclusive. A sample profiling is required to verify the requirements.  
 B. The report is inconclusive. A load test is required to verify the requirements.  
 C. The report is conclusive. The requirements are not met.  
 D. The report is conclusive. The requirements are met.

**Answer: D**

#### QUESTION 41

You create Microsoft Windows-based applications. You create a sales management application. The application stores sales data on a Microsoft SQL Server 2005 database that is maintained on a local server. The application retrieves data for analysis and permits users to make changes to the sales data. After the application is deployed, users report that the application takes too long to start. You run the application on your local computer to verify the performance and network usage. The performance chart is shown in the Performance exhibit and the network usage chart is shown in the Networking exhibit. (Click the Exhibit button.) You need to analyze the application code and evaluate the problem. What should you conclude?



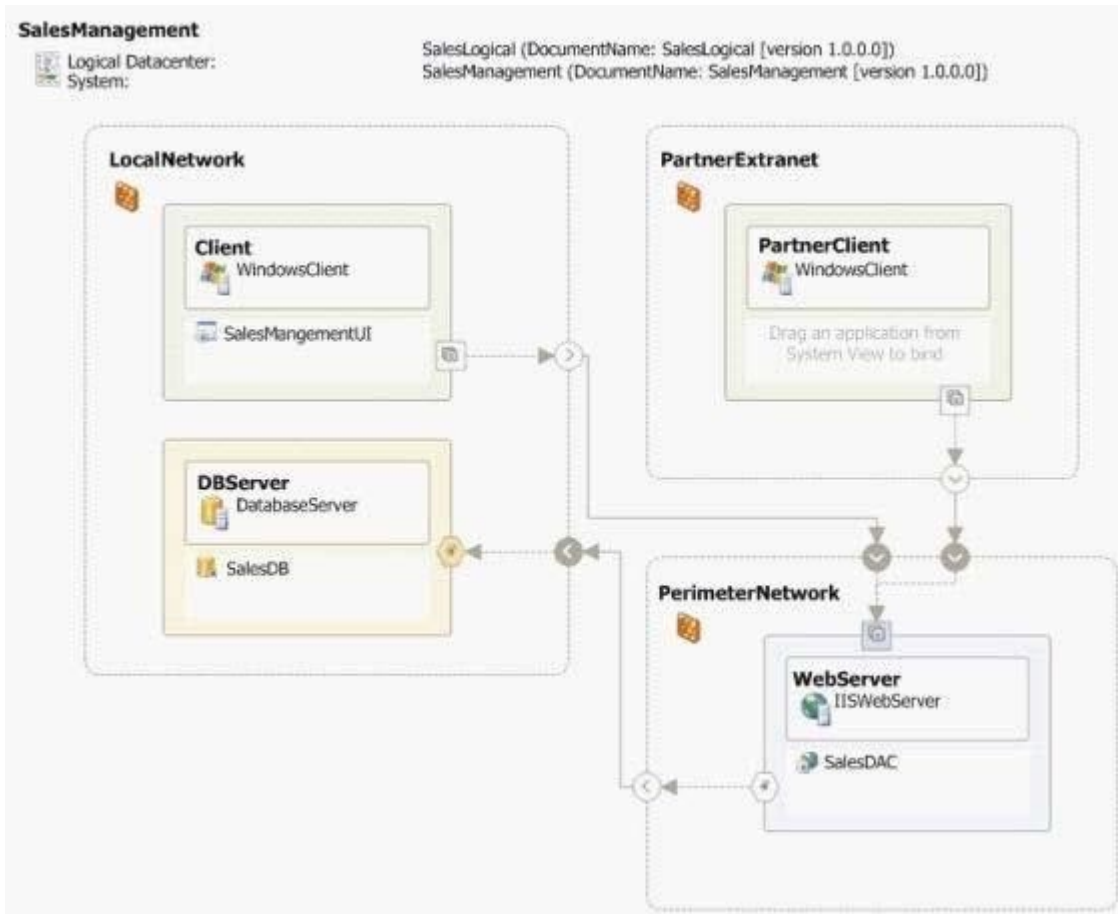
- The application is consuming too much network resources. It is necessary to debug the application to find out if the issue is related to the application, the network, or the database server.
- The application is consuming too much network resources. A faster network interface card is required to make the application perform better.
- The application is consuming too much processor time. It is necessary to debug the application to find the root cause.
- The application is consuming too much processor time. A faster processor is required to make the application perform better.

**Answer: A**

#### QUESTION 42

You create Microsoft Windows-based applications. You are creating a sales management application. The application will consume Web services to retrieve and save data to a database server. These Web services will be exposed to a partner extranet so that partners can write applications that will access the same data. The deployment diagram for the entire solution is as shown in the following exhibit. (Click the Exhibit button.) After deploying the solution, local users and partners report that they are not able to retrieve any data. You find that the client computers are able to access

Web applications and Web services hosted by the Web server. You also find that the local applications are able to access other databases on the database server. You need to troubleshoot the issue. What should you conclude?



- A. Firewall settings are blocking access from the Web server to the database server.
- B. Firewall settings are blocking access from the client computers to the Web server.
- C. The Web server is offline.
- D. The database server is offline.

**Answer: A**

#### QUESTION 43

You create Microsoft Windows-based applications. You are responsible for evaluating the deployment of a product-pricing application. This application will be deployed on portable computers that are used by a team of sales personnel.

The application must meet the following requirements:

- The application must run successfully on a dial-up connection.
- Users need to run the application locally.
- New features are added to the application on a monthly basis.

You need to provide a deployment solution that will ensure your users always have the latest version of the application when they connect to the corporate network. What should you recommend?

- A. Create a Microsoft Windows Installer MSI installation.
- B. Create a ClickOnce deployment.
- C. Create a setup executable that installs your application.

D. Create a Web Deployment installation.

**Answer: B**

#### QUESTION 44

You create Microsoft Windows-based applications. Two of your Windows-based applications require the use of graphical progress indicators. These indicators are based on bitmap files. Such a component is not available in the .NET Framework.

To facilitate the search for a component, you identify the following requirements:

Component exposes a property to set a bitmap file that is used for the progress bar. Component permits the use of at least two types of progress bars. These progress bars are named percent progress and numeric progress.

Component exposes a method to increment the progress bar.

You find a component that fulfills all the requirements. You create a new component that extends the original component and overrides the Increment method. The Windows-based applications might use either the original component or the extended component. You write a test project to test the component. You need to ensure that all the requirements are met. You want to achieve this goal by using the minimum amount of programming effort. Which component members should you test?

- A. Bitmap and Progress Bar Type properties, the Increment method for the original component
- B. Bitmap and Progress Bar Type properties, the Increment method for the original component, and the Increment method for the extended component
- C. All properties and methods for the original component
- D. All properties and methods for the original component and the extended component

**Answer: B**

#### QUESTION 45

You create Microsoft Windows-based applications. You create an application that accesses data on a Microsoft SQL Server 2005 database. You write the following code segment. (Line numbers are included for reference only.)

```
01 Private Sub LoadData()
02     cn.Open()
03     daProducts.Fill(ds)
04     daCategories.Fill(ds)
05     cn.Close()
06 End Sub
```

The cn variable points to a SqlConnection object. The SqlConnection object will be opened almost every time this code segment executes. You need to complete this code segment to ensure that the application continues to run even if the SqlConnection object is open. You also need to ensure that the performance remains unaffected. What should you do?

- A. Add a Try block on line 02 along with a matching Catch block beginning on line 07 to handle the possible exception.
- B. Add a Try block on line 02 along with a matching Finally block beginning on line 07 to handle the possible exception.
- C. Replace line 03 with the following code.If Not (cn.State = ConnectionState.Open) Then cn.Open()End If
- D. Replace line 03 with the following code.If Not (cn.State = ConnectionState.Closed) Then cn.Open()End If

**Answer: C**

**QUESTION 46**

You create Microsoft Windows-based applications. You are creating a method. Your applications will call the method multiple times. You write the following lines of code for the method.

```
01 Public Function BuildSQL(ByVal strFields As String, ByVal strTable As String, ByVal strFilterId As String) As String
02 Dim sqlInstruction As String = "SELECT "
03 sqlInstruction += strFields
04 sqlInstruction += " FROM "
05 sqlInstruction += strTable
06 sqlInstruction += " WHERE id ="
07 sqlInstruction += strFilterid
08 Return sqlInstruction
09 End Function
```

The method generates performance issues. You need to minimize the performance issues that the multiple string concatenations generate. What should you do?

- A. Use a single complex string concatenation.
- B. Use an array of strings.
- C. Use an ArrayList object.
- D. Use a StringBuilder object.

**Answer: D**

**QUESTION 47**

You create Microsoft Windows-based applications. You are creating an application that will monitor sales data.

The application must meet the following requirements:

Users must be able to customize display settings and the amount of data to monitor. Users must be able to log on to any computer on the network to use the application. User settings must be retrieved based on the logged-on user from any computer on the network.

You need to decide where to store the user settings. What should you do?

- A. Use a XML file stored in the application folder.
- B. Use the HKEY\_LOCAL\_MACHINE hive to store user settings.
- C. Use a table in a central database to store settings for each user.
- D. Use a serialized settings class and store an object for each user in memory.

**Answer: C**

**QUESTION 48**

You create Microsoft Windows-based applications. You are creating a stock trading application. The application keeps track of stock prices and raises events when the stock prices increase or decrease. The events are raised based on specific thresholds. When the events are raised, users specify whether to buy, sell, or hold the stocks. The stock trading application currently uses the Trace class to log the events raised by the application and the user responses. The raised events and the user responses are then logged to a Windows application log.

You change the application logging mechanism to meet the following requirements:

Log entries are saved in a central database.

Log entries are also saved to the local application log.

Other applications are able to use the same logging mechanism.

The application code is changed as little as possible.

You create a central database to store log entries for multiple databases. You need to choose a system-wide logging mechanism that is reused by the application and is a part of the application design structure. What should you do?

- A. Create a custom TraceListener class to save data to a central database. Compile the class to a dynamic-link library (DLL). Use the DLL in the application. Change the code to add an instance of the custom TraceListener class to the Listeners collection of the Trace class.
- B. Create a custom TraceListener class to save data to a central database. Compile the class to a dynamic-link library (DLL). Use the DLL in the application. Change the code to add an instance of the custom TraceListener class to the Listeners collection of the Trace class. Change the application code where log entries are created to create the entry twice, one for the local log and one for the database.
- C. Change the application to use a DataSet object to store logging information and save the dataset to the central database.
- D. Change the application to use a SqlCommand object to insert log entries to the central database.

**Answer: A**

#### QUESTION 49

You create Microsoft Windows-based applications. You participate in the planning phase of an incident tracking tool for technical support analysts.

The incident tracking tool must meet the following requirements:

Technical support analysts must open multiple incidents simultaneously.

The application can run only one instance at a time.

Users must be able to adjust the order and layout of the incident screens. You need to design an application user interface that meets these requirements with the minimum amount of code. Which action should you perform?

- A. Create a Multiple Document Interface (MDI) application with a menu strip. Utilize the MdiWindowListItem property of the menu strip to automatically merge MDI child forms to the Window list.
- B. Create a Single Document Interface application that launches multiple forms. Write code to enable the user to toggle between the active forms.
- C. Create a Multiple Document Interface application with a menu strip. Write code to add child Windows to the menu strip to add MDI child forms to the Window list.
- D. Create a Single Document Interface application. Create a custom-dockable control that can display each support incident.

**Answer: A**

#### QUESTION 50

You create Microsoft Windows-based applications. You are designing an application that will be deployed to employees in your company. The company requires that all internal applications are branded with the corporate logo and a copyright notice. You need to ensure that all forms in the application contain the appropriate branding and copyright notice. Your solution must be extensible, maintainable, and require minimum effort to lay out. Which solution should you use?

- A. Create a reference form with the correct branding and copyright information and copy and paste the controls on this form to all other forms.

- B. Create a user control with the correct branding and copyright information and add the user control to each form.
- C. Create a base form with the correct branding and copyright information and require all forms in the application to inherit from the base form.
- D. Create an image with the correct branding and copyright information and add a picture box control to each form to display the image.

**Answer: C**

#### QUESTION 51

You create Microsoft Windows-based applications. You create an application that loads bulk weather data into a data warehouse for analysis. The application is used by data-entry technicians. One data-entry technician is visually impaired. The data-entry technicians provide a large flat file as the source of the data, and they typically minimize the application so that they can use other programs while the data is being loaded. The data entry technicians must load as many data files as possible during the course of their work day. The user interface contains a progress bar control that has a text label. The text label indicates the current percentage of progress. You need to provide appropriate status feedback to the user by indicating that the process is complete. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Write code to change the title bar text of the application when the process is complete.
- B. Write code to reset the progress bar to its minimum value.
- C. Write code to play a sound that indicates the process is complete.
- D. Write code to update the status bar text to indicate the number of records processed.
- E. Write code to display an animated balloon tip when the process completes.

**Answer: CE**

#### QUESTION 52

You create Microsoft Windows-based applications. You design a composite user control that is used to enter e-mail addresses. The control is as shown in the following exhibit. (Click the Exhibit button.) The control validates the user input by using a regular expression. The control validates e-mail addresses and prevents the user from submitting blocked e-mail addresses. The control must permit the user to correct the entry if the user enters a blocked e-mail address. You need to provide feedback if the user enters a blocked e-mail address in the txtEmailAddress text box. What should you do?



- A. Write a code segment to throw an application exception.
- B. Set a custom property of the composite user control to indicate a data validation error.
- C. Write a code segment to display a message box if the user enters a blocked e-mail address.
- D. Write a code segment to clear the txtEmailAddress text box if the user enters a blocked e-mail address.

**Answer: C**

#### QUESTION 53

You create Microsoft Windows-based applications. You are developing an application that will be used by stock traders.

The project scope contains the following requirements:

The application must permit users to set thresholds for minimum and maximum values for different stocks. The application must alert the user when stock prices reach the pre-defined thresholds. The application must permit the user to either buy or sell stock and specify the quantity of stock to trade. The application must permit multiple alerts to be displayed simultaneously.

You need to decide how to implement the alert mechanism. What should you do?

- A. Use a modal dialog box to show each alert and to permit the user to trade stocks.
- B. Use a message box to show each alert and the main application form to permit the user to trade stocks.
- C. Use a BalloonTip control to display multiple alerts and the main application form to permit the user to trade stocks.
- D. Use a custom BalloonTip control to display multiple alerts and to permit the user to trade stocks.

**Answer: D**

#### **QUESTION 54**

You create Microsoft Windows-based applications. You are creating a component that will encapsulate a data source. Dozens of applications will use the component.

The component must meet the following design requirements:

- 1.The component must be able to be modified within a Rapid Application Development environment.
- 2.The component must be without a user interface.

You propose to derive the component from the System.Windows.Forms.Control class and to implement the IComponent interface. You need to decide whether the component will meet the requirements. What should you conclude?

- A. The solution meets both the design requirements.
- B. The solution does not meet any of the design requirements.
- C. The solution meets the second requirement but not the first requirement.
- D. The solution meets the first requirement but not the second requirement.

**Answer: D**

#### **QUESTION 55**

You create Microsoft Windows-based applications. You create a component that calls an existing function. The design for the function specifies that it might throw an application-specific exception named InvalidChecksumException, which inherits from System.ApplicationException. The InvalidChecksumException exception is an error that can be handled. But the component cannot handle any other type of error. The component does not have any additional information that can be added to other types of errors. You need to design the component to correctly handle exceptions. You also need to ensure that the exception-handling strategy does not affect performance. What should you do?

- A. Use a catch statement that has a filter for ApplicationException and find the exception type. If it is InvalidChecksumException, handle it automatically or rethrow the exception.
- B. Use only a catch statement that has a filter for InvalidChecksumExceptions and handle them automatically.
- C. Use a catch statement that has an empty filter. Verify the Message property to see if the exception is an InvalidChecksumException and perform the automatic recovery or rethrow the exception.

- D. Use a catch statement that has a filter for `InvalidChecksumException`, followed by another catch statement that has a filter for `Exception`. In the first catch block, automatically handle the exception. In the second catch block, log the error and rethrow the exception.

**Answer: B**

#### QUESTION 56

You create Microsoft Windows-based applications. You are upgrading an application that contains custom data-centric user controls. Each of these controls implements its own custom data-binding logic. Much of the data-binding code is similar from control to control. You create a new component that combines the common data-binding logic. You change the existing controls so they use this new component. You need to decide which tier of the application architecture this component will belong to. Where should you place the component?

- A. Presentation tier
- B. Business tier
- C. Data access tier
- D. Data tier

**Answer: A**

#### QUESTION 57

You create Microsoft Windows-based applications. You create a component to process daily reports. These daily reports are data-driven.

Eight database tables dictate the following properties:

the data that is printed  
 the format of the data  
 the order of output

The component loads the configuration data into a specific internal structure. Subsequently, the component retrieves and outputs the report data based on the configuration settings that are stored in the internal structure. The database is not updated. You need to develop the data handling capabilities of the component to manage the configuration data and the report data. You also need to ensure that the reports are generated as quickly as possible. Which two data handling mechanisms should you choose? (Each correct answer presents part of the solution. Choose two.)

- A. Use a `DataReader` object to load the report data based on the configuration data. Perform the required calculations.
- B. Use a `DataReader` object to load the configuration data from the database.
- C. Use a `DataAdapter` object and a `DataSet` object to load the configuration data from the database.
- D. Use a `DataAdapter` object and a `DataSet` object to load the report data based on the configuration data. Perform the required calculations.

**Answer: AB**

#### QUESTION 58

You create Microsoft Windows-based applications. You create a component that is used by 10 Windows-based applications. The component contains classes that represent persons. The three main classes are named `Customer`, `Contractor`, and `Employee`. These three classes serve as base classes for other classes. All classes have similar properties. The properties are implemented in a base abstract class called `Person`. The `Customer`, `Contractor`, and `Employee` classes can be instantiated. The following table describes what each method does in these classes.

Methods are included and implemented as high up in the hierarchy as possible. You need to define the appropriate method to be implemented in the appropriate base class. What should you do? To answer, drag the appropriate methods to the correct class or classes in the answer area.

Method	Customer	Contractor	Employee
Save	Saves properties in a database	Saves properties in a database	Saves properties in a database
Retrieve	Populates object based on data from a database	Populates object based on data from a database	Populates object based on data from a database
Pay	Not implemented	Calculates contractor pay based on hourly rate	Calculates employee pay based on annual salary
PlaceOrder	Creates a sales order for the customer	Creates a sales order as sold by the contractor	Creates a sales order as sold by the employee

Methods	Answer Area			
	Person	Customer	Contractor	Employee
virtual Save	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
virtual Retrieve	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
virtual Pay	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
virtual PlaceOrder	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
abstract PlaceOrder	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- A.
- B.
- C.
- D.

**Answer:**

#### QUESTION 59

You create Microsoft Windows-based applications. You are creating a component. The component performs statistical computations by using sets of data from a large, complex database. According to the design specification, the component performs a full set of calculations in not more than 5 seconds. Currently, the component takes more than 20 seconds to perform the required calculations. The project is almost complete and you must resolve the performance issues quickly. You need to identify the major processing performance issues in the component. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add custom instrumentation to the component for operations that you expect will exceed performance requirements.
- B. Use SQL Profiler when you run the component to identify long-running database queries.
- C. Use Microsoft Network Monitor to identify long-running or large network data transfers.
- D. Use the common language runtime (CLR) profiler to identify the most used and long-running functions in the component and the specific external functions they call.
- E. Create a custom test harness that calls individual functions and measures how long they take to run.

**Answer:** BD

**QUESTION 60**

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 61**

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**

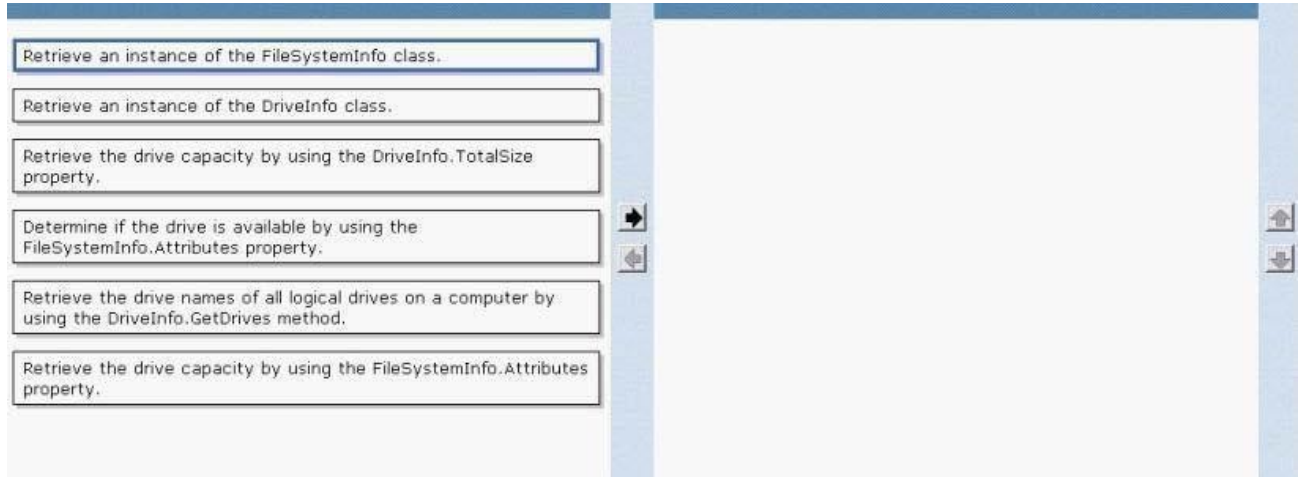
**QUESTION 62**

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 actions from the list of actions to the answer area and arrange them in the correct order.



- A.
- B.
- C.
- D.

**Answer:**

#### QUESTION 63

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

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

**Answer: C**

#### QUESTION 64

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

```
01 Public Class Group
02 Public Employees As Employee()
```

```

03 End Class
05 Public Class Employee
06 Public Name As String
07 End Class
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 65

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 66

You create an application to send a message by e-mail. An SMTP server is available on the local subnet. The SMTP server is named smtp.contoso.com. To test the application, you use a source address, me@contoso.com, and a target address, you@contoso.com. You need to transmit the e-mail message. Which code segment should you use?

- A. `Dim MailFrom As New MailAddress("me@contoso.com", "Me")Dim MailTo As New MailAddress("you@contoso.com", "You")Dim Message As New MailMessage(MailFrom, MailTo)Message.Subject = "Greetings"Message.Body = "Test"Message.Dispose()`

- B. Dim SMTPClient As String = "smtp.contoso.com"Dim MailFrom As String = "me@contoso.com"Dim MailTo As String = "you@contoso.com"Dim Subject As String = "Greetings"Dim Body As String = "Test"Dim Message As New MailMessage(MailFrom, MailTo, Subject, SMTPClient)
- C. Dim MailFrom As New MailAddress("me@contoso.com", "Me")Dim MailTo As New MailAddress("you@contoso.com", "You")Dim Message As New MailMessage(MailFrom, MailTo)Message.Subject = "Greetings"Message.Body = "Test"Dim objClient As New SmtpClient("smtp.contoso.com")objClient.Send(Message)
- D. Dim MailFrom As New MailAddress("me@contoso.com", "Me")Dim MailTo As New MailAddress("you@contoso.com", "You")Dim Message As New MailMessage(MailFrom, MailTo)Message.Subject = "Greetings"Message.Body = "Test"Dim Info As New SocketInformationDim Client As New Socket(Info)Dim Enc As New ASCIIEncodingDim Bytes() As Byte = Enc.GetBytes(Message.ToString)Client.Send(Bytes)

**Answer: C**

#### QUESTION 67

You are developing a custom-collection class. You need to create a method in your class. You need to ensure that the method you create in your class returns a type that is compatible with the Foreach statement. Which criterion should the method meet?

- A. The method must return a type of either IEnumerator or IEnumerable.
- B. The method must return a type of IComparable.
- C. The method must explicitly contain a collection.
- D. The method must be the only iterator in the class.

**Answer: A**

#### QUESTION 68

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

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

**Answer: BDF**

#### QUESTION 69

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

- A. Dim undoBuffer As New Stack(Of String)
- B. Dim undoBuffer As New Stack()
- C. Dim undoBuffer As New Queue(Of String)

D. Dim undoBuffer As New Queue()

**Answer: A**

#### QUESTION 70

You are developing an application that stores data about your company's sales and technical support teams. You need to ensure that the name and contact information for each person is available as a single collection when a user queries details about a specific team. You also need to ensure that the data collection guarantees type safety. Which code segment should you use?

- A. Dim team As Hashtable = New Hashtable() team.Add(1, "Hance")team.Add(2, "Jim")team.Add(3, "Hanif") team.Add(4, "Kerim")team.Add(5, "Alex")team.Add(6, "Mark")team.Add(7, "Roger")team.Add(8, "Tommy")
- B. Dim team As ArrayList = New ArrayList() team.Add("1, Hance")team.Add("2, Jim")team.Add("3, Hanif") team.Add("4, Kerim")team.Add("5, Alex")team.Add("6, Mark")team.Add("7, Roger")team.Add("8, Tommy")
- C. Dim team As New Dictionary(Of Integer, String) team.Add(1, "Hance")team.Add(2, "Jim")team.Add(3, "Hanif")team.Add(4, "Kerim")team.Add(5, "Alex")team.Add(6, "Mark")team.Add(7, "Roger")team.Add(8, "Tommy")
- D. Dim team As String() = New String() { \_"1, Hance", \_"2, Jim", \_"3, Hanif", \_"4, Kerim", \_"5, Alex", \_"6, Mark", \_"7, Roger", \_"8, Tommy" }

**Answer: C**

#### QUESTION 71

You are writing a custom dictionary. The custom-dictionary class is named MyDictionary. You need to ensure that the dictionary is type safe. Which code segment should you use?

- A. Class MyDictionaryImplements Dictionary(Of String, String)
- B. Class MyDictionary Inherits HashTable
- C. Class MyDictionary Implements IDictionary
- D. Class MyDictionary ... End Class Dim t As New Dictionary(Of String, String)Dim dict As MyDictionary = CType(t, MyDictionary)

**Answer: A**

#### QUESTION 72

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

- A. Dim e As ObjectFor Each e In qq.Dequeue()Next
- B. Dim e As ObjectFor Each e In qq.Enqueue(Nothing)Next
- C. q.Clear()
- D. q.Dequeue()

**Answer: C**

#### QUESTION 73

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.GetCurrentFor Each objGroup As IdentityReference In objUser.GroupsDim 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 74

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

- A. Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False, \_ SslProtocols.None, True)
- B. Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False, \_ SslProtocols.Ssl3, True)
- C. Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False, \_ SslProtocols.Ssl2, True)
- D. Dim objSSL As New SslStream(client.GetStream)objSSL.AuthenticateAsServer(certificate, False, \_ SslProtocols.Tls, True)

**Answer: D**

#### QUESTION 75

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

Which code segment should you use?

- A. Dim objAlgo As HashAlgorithm = HashAlgorithm.Create("MD5")Dim hash() As Byte = objAlgo. ComputeHash(message)
- B. Dim objAlgo As HashAlgorithm = HashAlgorithm.Create("MD5")Dim hash() As Byte = BitConverter. GetBytes(objAlgo.GetHashCode)
- C. Dim objAlgo As HashAlgorithmobjAlgo = HashAlgorithm.Create(message.ToString)Dim hash() As Byte = objAlgo.Hash
- D. Dim objAlgo As HashAlgorithm = HashAlgorithm.Create("MD5")Dim hash() As ByteobjAlgo.TransformBlock (message, 0, message.Length, hash, 0)

**Answer: A**

**QUESTION 76**

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 77**

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

- A. `Dim objSHA As New SHA1CryptoServiceProviderDim hash() As Byte = NothingobjSHA.TransformBlock(message, 0, message.Length, hash, 0)`
- B. `Dim objSHA As New SHA1CryptoServiceProviderDim hash() As Byte = BitConverter.GetBytes(objSHA.GetHashCode)`
- C. `Dim objSHA As New SHA1CryptoServiceProviderDim hash() As Byte = objSHA.ComputeHash(message)`
- D. `Dim objSHA As New SHA1CryptoServiceProviderobjSHA.GetHashCode()Dim hash() As Byte = objSHA.Hash`

**Answer: C**

**QUESTION 78**

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 79**

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

- A. <SecurityPermission( \_ SecurityAction.Demand, \_ Flags:=SecurityPermissionFlag.UnmanagedCode) \_>
- B. <SecurityPermission( \_ SecurityAction.LinkDemand, \_ Flags:=SecurityPermissionFlag.UnmanagedCode) \_>
- C. <SecurityPermission( \_ SecurityAction.Assert, \_ Flags:=SecurityPermissionFlag.UnmanagedCode) \_>
- D. <SecurityPermission( \_ SecurityAction.Deny, \_ Flags:=SecurityPermissionFlag.UnmanagedCode) \_>

**Answer:** A

#### QUESTION 80

You are developing an application that will deploy by using ClickOnce. You need to test if the application executes properly. You need to write a method that returns the object, which prompts the user to install a ClickOnce application. Which code segment should you use?

- A. Return ApplicationSecurityManager.ApplicationTrustManager
- B. Return AppDomain.CurrentDomain.ApplicationTrust
- C. Return new HostSecurityManager
- D. Return SecurityManager.PolicyHierarchy

**Answer:** A

#### QUESTION 81

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

```
If TestPassword(UserName, Password) = False Then
Throw New Exception("Could not authenticate user")
End If
Dim RolesArray() As String = LookUpUserRoles(UserName)
```

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

- A. Dim objID As New GenericIdentity(UserName)Dim objUser As New GenericPrincipal(objID, RolesArray)Thread.CurrentPrincipal = objUser
- B. Dim objID As New WindowsIdentity(UserName)Dim objUser As New WindowsPrincipal(objID)Thread.CurrentPrincipal = objUser
- C. Dim objNT As New NTAccount(UserName)Dim objID As New GenericIdentity(objNT.Value)Dim objUser As New GenericPrincipal(objID, RolesArray)Thread.CurrentPrincipal = objUser
- D. Dim objToken As IntPtr = IntPtr.ZeroobjToken = LogonUserUsingInterop(UserName, EncryptedPassword)Dim objContext As WindowsImpersonationContext = \_WindowsIdentity.Impersonate(objToken)

**Answer:** A

#### QUESTION 82

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 83

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 84

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 85

You are developing a utility screen for a new client application. The utility screen displays a thermometer that conveys the current status of processes being carried out by the application. You need to draw a rectangle on the screen to serve as the background of the thermometer as shown in the exhibit. The rectangle must be filled with gradient shading. (Click the Exhibit button.) Which code segment should you choose?



- A. Dim objRect As New Rectangle(10, 10, 450, 25)Dim objBrush As New LinearGradientBrush( \_ objRect, Color.AliceBlue, Color.CornflowerBlue, \_ LinearGradientMode.ForwardDiagonal)Dim objPen As New Pen (objBrush)Dim g As Graphics = myForm.CreateGraphicsg.DrawRectangle(objPen, objRect)
- B. Dim objRect As New Rectangle(10, 10, 450, 25)Dim objBrush As New LinearGradientBrush( \_ objRect, Color.AliceBlue, Color.CornflowerBlue, \_ LinearGradientMode.ForwardDiagonal)Dim objPen As New Pen (objBrush)Dim g As Graphics = myForm.CreateGraphicsg.FillRectangle(objBrush, objRect)
- C. Dim objRect As New RectangleF(10.0F, 10.0F, 450.0F, 25.0F)Dim points() As System.Drawing.Point = \_ {New Point(0, 0), New Point(110, 145)}Dim objBrush As New LinearGradientBrush( \_ objRect, Color. AliceBlue, Color.CornflowerBlue, \_ LinearGradientMode.ForwardDiagonal)Dim objPen As New Pen (objBrush)Dim g As Graphics = myForm.CreateGraphicsg.DrawPolygon(objPen, points)
- D. Dim objRect As New Rectangle(10, 10, 450, 25)Dim objBrush As New SolidBrush(Color.AliceBlue)Dim objPen As New Pen(objBrush)Dim g As Graphics = myForm.CreateGraphicsg.DrawRectangle(objPen, objRect)

**Answer: B**

#### QUESTION 86

You need to write a code segment that will add a string named strConn to the connection string section of the application configuration file. Which code segment should you use?

- A. Dim myConfig As Configuration = \_ ConfigurationManager.OpenExeConfiguration( \_ ConfigurationUserLevel.None)myConfig.ConnectionStrings.ConnectionStrings.Add( \_ New ConnectionStringSettings("ConnStr1", strConn))myConfig.Save()
- B. Dim myConfig As Configuration = \_ ConfigurationManager.OpenExeConfiguration( \_ ConfigurationUserLevel.None)myConfig.ConnectionStrings.ConnectionStrings.Add( \_ New ConnectionStringSettings("ConnStr1", strConn))ConfigurationManager.RefreshSection ("ConnectionStrings")
- C. ConfigurationManager.ConnectionStrings.Add( \_ New ConnectionStringSettings("ConnStr1", strConn)) ConfigurationManager.RefreshSection("ConnectionStrings")
- D. ConfigurationManager.ConnectionStrings.Add( New ConnectionStringSettings("ConnStr1", strConn))Dim myConfig As Configuration = \_ ConfigurationManager.OpenExeConfiguration( \_ ConfigurationUserLevel. None)myConfig.Save()

**Answer: A**

#### QUESTION 87

You are using the Microsoft Visual Studio 2005 IDE to examine the output of a method that returns a string. You assign the output of the method to a string variable named fName.

You need to write a code segment that prints the following on a single line

The message: "Test Failed: "

The value of fName if the value of fName does not equal "John"

You also need to ensure that the code segment simultaneously facilitates uninterrupted execution of the application. Which code segment should you use?

- A. Debug.Assert(fName = "John", "Test Failed: ", fName)
- B. Debug.WriteLineIf(fName <> "John", \_ fName, "Test Failed")

- C. If fName <> "John" Then Debug.Print("Test Failed: ") Debug.Print(fName)End If
- D. If fName <> "John" Then Debug.WriteLine("Test Failed: ") Debug.WriteLine(fName)End If

**Answer: B**