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Total No of Questions:-310

Question: 1

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 a 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: 2

You need to create a Windows Forms application that uses a nonrectangular form as its user interface.
What should you do?

- A. Set the FormBorderStyle property of the form to None.
Set the BackgroundImage property of the form to a bitmap file that represents the shape you want form to take.
Set the TransparencyKey property to the background color of the bitmap file.
- B. Set the FormBorderStyle property of the form to None.
Set the BackgroundImage property of the form to a bitmap file that represents the shape you want the form to take.
Set the TransparencyKey property to Transparent.
- C. Set the FormBorderStyle and BackgroundImageLayout properties to None.
Set the BackgroundImage property of the form to a bitmap file that represents the shape you want the form to take.
Set the TransparencyKey property to Transparent.
- D. Set the FormBorderStyle property to None and the BackColor property to Control.
Set the BackgroundImage property of the form to a bitmap file that represents the shape you want the form to take.
Set the TransparencyKey property to Transparent.

Answer: A

Question: 3

You create a Windows Forms application. Your application executes a background thread.
You need to construct the thread to exit, but you also need to notify the main thread when the background thread has ended.
What should you do?
Call the Abort method of the thread.
Call the Interrupt method of the thread.
Call the Join method of the thread.
Call the Sleep method of the thread.

Answer: C

Question: 4

You are creating a Windows Forms application that uses a drag-and-drop operation to enable users to copy customer data between a ListBox control and RichTextBox control. The ListBox displays a list of customer ids to the user. Each item in the ListBox is associated with a custom external data type named CustomerData. The data type stores the customer name along with other customer information, including the address and postal code.

You need to ensure that when the user drags a customer name from the ListBox to the RichTextBox all of the information in your custom data type is moved into the RichTextBox.

What should you do?

- A. Initiate the drag-and-drop operation in the MouseDown event for the ListBox. Call the DoDragDrop method for the ListBox, passing in an instance of CustomerData. Use the GetFormats method in the DragEnter event for the RichTextBox to access the custom data type.
- B. Initiate the drag-and-drop operation in the MouseDown event for the ListBox. Call the DoDragDrop method for the ListBox, passing in an instance of CustomerData. Use the GetData method in the DragDrop event for the RichTextBox to access the custom data type.
- C. Initiate the drag-and-drop operation in the MouseDown event for the ListBox. In the DragEnter or DragDrop events for the RichTextBox, set the Effect property to DragDropEffects.All. Use the GetFormats method in the DragEnter event for the RichTextBox to access the custom data type.
- D. Initiate the drag-and-drop operation in the MouseDown event for the ListBox. In the DragEnter or DragDrop events for the RichTextBox, set the Effect property to DragDropEffects.All. Use the GetDataPresent method in the DragEnter event for the RichTextBox to access the custom data type.

Answer: B

Question: 5

You are creating multiple-document interface (MDI) Windows Forms application.

You need to configure the main form to function as the parent form and a second form to function as the child form.

What should you do?

- Set the IsMdiContainer property of the parent form to True.
- Set the MdiParent property of the child form to the parent form.
- Set the IsMdiContainer property of the parent form to True.
- Set the Parent property of the child form to the parent form.
- Add the child form to the Controls collection of the parent form.
- Set the MdiParent property of the child form to the parent form.
- Add the child form to the Controls collection of the parent form.
- Set the Parent property of the child form to the parent form.

Answer: A

Question: 6

You are adding accessibility functionality to a custom, owner-drawn control named Legend. You create a class named AccessibleLegend, which is derived from the AccessibleObject class.

The Legend control overrides the GetChild method and returns an AccessibleLegend object.

You need to ensure that when the Legend control is disabled, the control still returns the appropriate value for the State property of the AccessibleLegend object.

Which value should you configure the State property to return?

- A. AccessibleStates.Invisible
- B. AccessibleStates.Protected
- C. AccessibleStates.ReadOnly
- D. AccessibleStates.Unavailable

Answer: D

Question: 7

You are creating a Windows Forms application. Your application uses a custom control. The Custom control is based on a standard button control. You add several extra properties to the control. Some of these properties are read-only.

You need to ensure that the read-only properties are not displayed in the Properties window of the design environment.

What should you do?

- A. Decorate the read-only properties by using the EditorBrowsable attribute, and then set the EditorBrowsable attribute to EditorBrowsableState.Never.
- B. Use the DesignTimeVisible attribute, and then set the DesignTimeVisible attribute to False.
- C. Decorate the read-only properties by using theBrowsable attribute, and then set theBrowsable attribute to False.
- D. Decorate the read-only properties by using the DisplayName attribute, and then set the DisplayName attribute to null.

Answer: C

Question: 8

You create a custom control by extending a standard TextBox control. The custom control adds a new property called ValidationColor.

You need to ensure that users can select the color for the ValidationColor property from the Properties window at design time by using the color action palette that is available for other standard Windows Forms controls.

What should you do?

- A. Create a custom context menu that contains the chosen color palette and logic. Implement the IcontainerControl interface for your control.
- B. Create a custom dialog box that contains the chosen color palette and logic. Configure the FormBorderStyle property of the dialog box to None. Implement the IcontainerControl interface for your control, and use its ActivateControl method to activate the dialog box.
- C. Create a custom dialog box that contains the chosen color palette and logic. Configure the FormBorderStyle property of the dialog box to None. In the Set method of your property, write code to instantiate the dialog box and return the selected value.
- D. Declare the type of the property as System.Drawing.Color.

Answer: D

Question: 9

You created a custom Windows Forms control that contains width, Height, and SquareFootage properties. The SquareFootage property contains the multiplied value of Width and Height.

You need to make SquareFootage visible, while disabling it in the property grid.

What should you do?

- A. Apply the NotSerialized() attribute to the SquareFootage property.
- B. Apply the DesignerSerializationVisibility() attribute to the SquareFootage property, and pass in a value of DesignerSerializationVisibility.Content as a parameter.

- C. Apply the EditorBrowsable attribute to the SquareFootage property, passing in a value of EditorBrowsableState.Never as a parameter.
- D. Implement the property by using only a Get accessor.

Answer: D

Question: 10

You are customizing a Windows Form. You want to display a custom icon for your composite control named DialerControl in the toolbox.

You need to customize the toolbox icon. You want to achieve this goal by using the minimum amount of effort.

Which action or actions should you perform? (Choose all that apply.)

- A. Add a bitmap named DialerControl.bmp to the user control project.
- B. Change the build action of the bitmap to Embedded Resource.
- C. Add a ToolboxBitmap attribute to the DialerControl class, passing in DialerControl.bmp as a parameter.
- D. Add a ToolboxBitmap attribute to the DialerControl class, passing in typeof(DialerControl) as a parameter.

Answer: A, B

Question: 11

You create a new custom control by extending a standard TextBox control.

You need to replace the default icon for the control with your own custom icon.

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

- A. Add the bitmap file that contains the custom icon to the custom control project. Set its BuildAction property to Compile in the properties window.
- B. Add the bitmap file that contains the custom icon to the custom control project. Decorate the control class with the ToolboxBitmap attribute, and specify the location of the bitmap file for the icon.
- C. Add the bitmap file that contains the custom icon to the custom control project. Give the bitmap file the same name as your control class, and use the .bmp or .ico file name extension. Set its BuildAction property to EmbeddedResource in the Properties window.
- D. Add the bitmap file that contains the custom icon to the custom control project. Give the bitmap file the same name as your control class, and use the .bmp or .ico file name extension. Set the Copy to Output Directory property of the bitmap to Copy always.

Answer: B, C

Question: 12

You are creating a Windows Form that includes print functionality. The form includes a PrintDocument control. A PrintPage event handler contains code that renders the form data to a default printer.

You need to display a preview of the printed document along the lower edge of the form.

- A. Set the PrinterSettings.PrinterName property of the PrintDocument control to Preview.
- B. Add a second PrintDocument control to your form. Set the PrintController property of the PrintDocument type to a new instance of the PreviewPrintController type.
- C. Add a PrintPreviewControl control to your form. Set the PrinterSettings.PrinterName property of the PrintDocument control to the Name property of the PrintPreviewControl control.
- D. Add a PrintPreviewControl control to your form. Set the Document property of the PrintPreviewControl control to the existing PrintDocument instance.

Answer: D

Question: 13

You are creating a Windows Forms application that manages document creation. You need to display a customized print preview of the document that show within the main form. You want the customized view to display without the standard print preview user control. What should you do?

- A. Use the PrintPreviewDialog component. Set the Document property to the document to be printed. Use the ShowDialog method to display the control.
- B. Use the PrintPreview control. Set the Document property to the document to be printed.
- C. Use the PrintPreviewDialog component. Set the Document property of the control to the document to be printed. Use the Show method to display the control. Use the MainMenuStrip property to configure the user controls you want.
- D. Use the PrintPreview control. Set the Name property to the name of the document to be printed.

Answer: B

Question: 14

You are creating a Windows Forms application. Users need to preview print jobs before printing from the application. You added a PrintDocument component and PrintPreviewDialog component to the form. You need to configure the application to allow users to preview print jobs. You want to achieve this goal by using the minimum amount of effort. Which three action should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Set the PrintPreviewDialog.Document property to the PrintDocument component instance.
- B. Add a PrintDialog component to the form.
- C. Set the PrintDialog.Document property to the PrintDocument component instance.
- D. Create an event handler for the PrintDocument.PrintPage event.
- E. Call the PrintDialog.ShowDialog method.
- F. Call the PrintPreviewDialog.ShowDialog method.

Answer: A, D, F

Question: 15

You are modifying an existing installation package for your application. Your application requires Microsoft Windows Server 2003 and will not run on Microsoft Windows 2000 Server. You add the following condition to the primary output of your installer. VersionNT >= 502
Users who previously attempted to install your application on Windows 2000 Server report that they still cannot install your application after than upgrade to Windows Server 2003. You need to ensure that users who upgrade the operating system on their servers to meet your launch condition can successfully ..install your application. What should you do?

- A. Set the Transitive property of the primary output to True.
- B. Change the UpgradeCode property of your Setup application.
- C. Set the Vital property of the primary output to True.
- D. Change the launch condition of your primary output to VersionNT >= 500.

Answer: A

Question: 16

You created a custom action for your Windows setup application. The custom action runs a

standard Console application at the end of the installation process. You place the custom action in the Install node of the Custom Actions tree in the Custom Actions Editor. The Console application executable performs correctly when run as a stand-alone application. However, when you run the Microsoft Windows Installer package that was created by your setup application, the custom action does not run. Everything else works fine. You need to ensure that the console application runs during the install. What should you do?

- A. Set the InstallerClass property of your custom action to False.
- B. Place the custom action in the Commit node of the Custom Action tree rather than in the Install node.
- C. Set the DetectNewerInstalledVersion property for your setup application True.
- D. Set the InstallAllUsers property for your setup application to True.

Answer: A

Question: 17

You are configuring a ClickOnce deployment that allows users to install your application from the Internet zone under partial trust permission. You want the application to access data that resides on the same remote server from the application is installed.

You need to add one of 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: A, B, D

Question: 18

You want to create a custom installer component to install your Windows-based application on client computers.

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

- A. Inherit from the Installer class.
- B. Inherit from the AssemblyInstaller class.
- C. Add the RunInstallerAttribute to your derived class and set it to True.
- D. Add the InstallerTypeAttribute to your derived class and set it to CustomInstaller.
- E. Register the installer.
- F. Override the install, Commit, Rollback, and Uninstall methods as required.

Answer: A, C, F

Question: 19

You are creating an installation package for a .Net Framework application. You need to configure your installation package to add a shortcut to the user's desktop during installation. Which editor in the setup project should you use?

- A. File Types Editor
- B. User Interface Editor
- C. Custom Action Editor
- D. File System Editor

Answer: D

Question: 20

You are creating a Windows Forms application. You want the installer to display an HTML document that contains important information after users install your application. You need to configure your application to display the HTML document.

What should you do?

- A. Set the SupportUrl property of your primary output to the path of the HTML document.
- B. Create a Custom Install Action that calls the Process.Start method, passing in the path of the HTML document as the fileName parameter.
- C. Set the PostBuild event of your installation project to the path of the HTML document.
- D. Create a Custom Commit Action that calls the Process.Start method, passing in the path of the HTML document as the fileName parameter.

Answer: D

Question: 21

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?

All answer, drag the appropriate security zones to the correct deployment locations in the answer area. Each security zone can be used more than one.

Answer:

Question: 22

You are creating a Windows Forms application. The application displays data from a Microsoft SQL Server 2005 database in a DataGridView control. The DataGridView control is populated by a data table. The data table is filled by using a SqlDataAdapter object.

You need to display changes to the database as they happen without polling the database.

What should you do?

- A. Create a SqlDependency object and bind it to a SqlCommand object that is used by the SqlDataAdapter object. Reload the dataset in an event handler that is registered for the OnChanged event of the SqlDependency object.
- B. Use a TransactionScope block when calling the Fill method of the SqlDataAdapter object.
- C. Set the CommandTimeout property of the SqlCommand object that is used by the SqlDataAdapter object to -1.
- D. Reload the data table in an event handler that is registered for the RowChanging event of the DataTable object.

Answer: A

Question: 23

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.

Destination 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 try-catch-finally block. Connect to each database and execute each stored procedure in the try block.

Answer: B

Question: 24

A Windows Forms application programmatically creates the schema for a dataset. The dataset includes a data table named Departments. The Departments table includes columns named DepartmentID and DepartmentName.

You need to ensure that the Departments table assigns a unique integer value to the DepartmentID column when a new row is added.
What should you do?

- A. Set the expression property of the DepartmentID column to "DepartmentID + 1".
- B. Add a Unique constraint for the DepartmentID column.
- C. Set the AutoIncrement property of the DepartmentID column to True.
- D. Designate the DepartmentID column as the primary key.

Answer: C

Question: 25

You are creating multiple threads in your application that will execute the same method. You need to synchronize access to a block of code within the method so that no two threads execute the block at the same time.
What should you do?

- A. Add a SynchronizationAttribute attribute to the method that the multiple threads will call.
- B. Call the Monitor.Enter method before the block of code you want to synchronize, and then call the Monitor.Exit method after the block of code you want to synchronize.
- C. Use the Thread.BeginCriticalRegion method before the block of code you want to synchronize and the Thread.EndCriticalRegion method after the block of code you want to synchronize.
- D. Call the Interlocked.Increment method before the block of code you want to synchronize, and then call the Interlocked.Decrement method after the block of code you want to synchronize.

Answer: B

Question: 26

You are creating a Windows Forms application. You create a class named ApplicationUtilities and add a method named BackgroundProcess. You anticipate that the BackgroundProcess method may require several minutes or longer to execute. You need to ensure that the application remains responsive while the BackgroundProcess method runs.

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

- A. Create an instance of a System.Threading.ThreadStart delegate named AsyncDelegate, and pass the BackgroundProcess method in as a parameter.

- B. Create a delegate named AsyncDelegate that matches the signature of the BackgroundProcess method.
- C. Implement the IAsyncResult interface for the ApplicationUtilities class.
- D. Override the BeginInvoke and EndInvoke methods for the ApplicationUtilities class.
- E. Call AsyncDelegate.BeginInvoke to execute to method. After the method is complete, call AsyncDelegate.EndInvoke.
- F. Call ApplicationUtilities.BeginInvoke to execute the method. After the method is complete, call ApplicationUtilities.EndInvoke.

Answer: B, E

Question: 27

You are creating a Windows Form that includes custom print functionality. You need to ensure that exactly four pages are printed.
What should you do?

- A. In the BeginPrint event handler, reset a counter. Increment the counter each time that the PrintPage event handler is invoked. On the fourth invocation, set the PrintPageEventArgs.HasMorePages property to False.
- B. In the BeginPrint event handler, reset a counter. Increment the counter each time that the PrintPage event handler is invoked. On the fourth invocation, set the PrintPageEventArgs.Cancel property to True.
- C. In the PrintPage event handler, ensure that the page will render only if the PrintPageEventArgs.HasMorePages property is set to True.
- D. In the PrintPage event handler, ensure that the page will render only if the PrintPageEventArgs.Cancel property is set to False.

Answer: A

Question: 28

You are creating a Windows user control named URLRequest. URLRequest contains a ComboBox control named cboUrl and a Button control named btnGo.
When the user clicks btnGo, you want the URLRequest control to provide notification that the value of cboUrl changed.
You need to implement the notification functionality.
Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create a public event named UrlRequested and a property named Url for your control that returns the Url value of cboUrl.
- B. Change the Modifiers property of btnGo to Public.
- C. Add a DefaultEvent attribute to URLRequest that uses the btnGo_Click event as an argument.
- D. Change the Modifiers property of cboUrl to Public.
- E. Raise the URLRequest event in the Click event handler for btnGo.

Answer: A, E

Question: 29

You are creating a shaped Windows Form. The shape and background for the form are available in a bitmap file named Background.bmp. The FormBorderStyle property is set to None and the BackgroundImage property is set to background.bmp. However, when the application runs, the entire image including all of the background is visible and the form still appears to be rectangular.
You need to configure the form so that it takes the shape of the bitmap file without the background.
What should you do?

- A. Set the BackgroundImageLayout property to None.
- B. Set the BackColor property of the form to the background color of Background.bmp.
- C. Set the Opacity property of the form to 0%.
- D. Set the TransparencyKey property of the form to the background color of Background.bmp.

Answer: D.

Question: 30

You are creating a data-entry application that uses many TextBox controls. Each control requires special validation logic.

You need to ensure an extended version of the standard Windows Forms TextBox control that has the validation logic built into the control. You start by creating a new Windows Control Library project.

What should you do?

- A. Add a TextBox control to the control design surface, and add properties and methods as required.
- B. In the code, change the class to derive from the UserControl class, and add properties and methods as required.
- C. In the code, change the class to derive from the TextBox class, and add properties and methods as required.
- D. In the code, change the class to derive from the Control base class, and add properties and methods as required.

Answer: C

Question: 31

You create a Windows user control named EmployeeData. You want to provide design-time layout support for EmployeeData so that it will easily align with other controls on the form.

You create a class named SnapLineDesigner that inherits from the System.Windows.Forms.Design.ControlDesigner class. You add a Designer attribute to the EmployeeData class and pass in SnapLineDesigner as the designer TypeName parameter.

You need to provide the design-time layout support for EmployeeData.

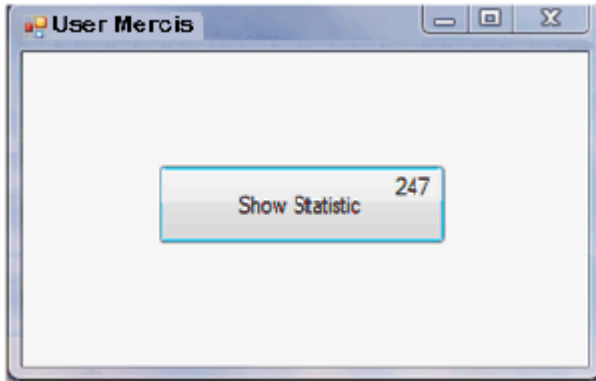
What should you do?

- A. In the constructor of EmployeeData, add items to the SnapLines collection of EmployeeData.
- B. In the constructor of EmployeeData, add items to the SnapLines collection of SnapLineDesigner.
- C. In the constructor of SnapLineDesigner, add items to the SnapLines collection of EmployeeData.
- D. In the constructor of SnapLineDesigner, add items to the SnapLines collection of SnapLineDesigner.

Answer: D

Question: 32

Exhibit:



You are building a custom extended button control. This control handles its own painting by displaying a particular metric value in the upper right corner of the button, as shown in the exhibit. You test this feature and verify that it works correctly.

You also want the displayed value to be updated in real time as the user uses the application. You override the OnPaint method of the control to raise the Paint event when required. Your project compiles and builds with no problems, but the control does not paint itself correctly. You need to ensure that the control paints itself correctly. What should you do?

- A. Call the base OnPaint method of the class from within your OnPaint method.
- B. Raise the Paint event handler from within the OnPaint method.
- C. Call the OnPaint method of the base class from within the Paint event.
- D. Use the DefaultEvent attribute on your control class to specify that events will correctly ripple down the event chain from the base class to your current instance.

Answer: A

Question: 33

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 the MultiLine mode
- C. ComboBox control
- D. RichTextBox control
- E. MaskedTextBox control

Answer: A, C

Question: 34

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: 35

You are creating a Windows Forms application. The application executes a stored procedure that takes several seconds to complete. The 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 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: 36

You are creating a Windows Forms application that targets Microsoft Windows 2000 or later. You need to configure your Setup application for conditional installation.

Which part or parts of a Setup application can be configured for conditional installation based on the operating system? (Choose all that apply.)

- A. primary output of a project
- B. registry keys and values
- C. file type associations
- D. user interface dialog boxes
- E. custom actions

Answer: B, C

Question: 37

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: 38

You are creating a Windows Forms setup application. The default user interface does not meet your needs. You want to provide an additional dialog box that includes two check boxes during

the install process. You want the check boxes to give users the option to install two large Help files named Company1 and Company2 during the installation process. You need to customize the interface to meet your needs. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Create the dialog box and the logic for the dialog box in a separate project. Compile the project into an executable, and add the executable to the setup project.
- B. In the User Interface Editor, add a Checkboxes dialog box to the Start node of the user interface tree.
- C. In the Custom Actions Editor to add the dialog box executable for the setup application to the install node.
- D. In the Properties window for your setup project, set the PreBuildEvent property to call a command line to display the dialog box.
- E. In the File System Editor, set the Condition property for Company1 to the value of the Checkbox1Property property. Set the condition property for Company2 to the value of the Checkbox2Property property.
- F. Set the Checkbox3Visible and Checkbox4Visible properties of the Checkboxes dialog box to False.

Answer: B, E, F

Question: 39

You are testing an installation package for a Windows Forms application. You notice that the installed application will not run on client computers that do not have the .Net Framework installed.

You need to ensure that when a user installs the application on his or her client computer, the .Net Framework is also installed. What should you do?

- A. Select the .Net Framework in the Dependencies property value in the project's property grid.
- B. Verify that the .Net Framework redistributable package check box is selected under the Prerequisites button on the setup property pages.
- C. Add the .Net Framework redistributable package to the setup project in the File System Editor.
- D. Create a Custom Actions Editor that copies the .Net Framework redistributable package to the application's root directory.

Answer: B

Question: 40

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: B, C

Question: 41

You are creating a setup project. You want to add functionality that will execute only if the setup project is executed by an administrative user. You need to configure features of your installation package to execute only when the installation is run by an administrative user. Which setup project editor supports this functionality by default?

- A. File System Editor
- B. Registry Editor
- C. User Interface Editor
- D. Custom Action Editor

Answer: C

Question: 42

You are creating a multiple-document interface (MDI) Windows Forms application that contains an MDI parent form and an MDI child form. You add a MenuStrip control to the parent form and a MenuStrip control to the child form. You add a top-level menu item labeled File to each menu. You then add different submenu items to each menu. When a child window is visible, the application should display a single top-level File menu that contains the combined set of submenu items. You need to set form properties so that the menus combine correctly. What should you do?

- A. Set the MergeAction property of the child form's File menu item to MatchOnly. Set the MergeAction property of the child form's submenu items to Insert.
- B. Set the MergeAction property of the parent form's File menu item to MatchOnly. Set the MergeAction property of the parent form's submenu items to Insert.
- C. Set the MergeAction property of the child form's File menu item to Insert. Set the MergeAction property of the child form's submenu items to MatchOnly.
- D. Set the MergeAction property of the parent form's File menu item to Insert. Set the MergeAction property of the parent form's submenu items to MatchOnly.

Answer: A

Question: 43

You are creating a complex data-entry Windows Forms application. The application allows users to move text between text boxes by using drag-and-drop operations. Your company also has other data-entry applications. You need to ensure that users can perform similar drag-and-drop operations between the different applications. What should you do?

- A. Ensure that the AllowedEffect property in each application includes the DragDropEffects.Link settings.
- B. Ensure that the Effect property in each application includes the DragDropEffects.Link setting.
- C. Ensure that the Effect property in the drag source application includes the DragDropEffects.Link setting, and the AllowEffect property in drop target application is set to DragDropEffects.Copy.
- D. Ensure that the Effect and AllowEffect properties in each application includes the DragDropEffects.Copy setting.

Answer: D

Question: 44

You are working with a Windows Forms application that uses the Application.Settings features... You need to perform certain processing actions when user settings are changed at run time. Which two events should you handle to achieve this goal? (Each correct answer presents part of the solution. Choose two.)

- A. SettingChanging
- B. PropertyChanged
- C. StateChange
- D. SettingsLoaded
- E. Change

Answer: A, B

Question: 45

You are creating the printing components of an application for your company. A security requirement states that users can choose only local printers attached to their computers. Browsing network printers is prohibited. You need to disable a user's ability to browse the network for printers when using the PageSetup dialog box. What should you do?

- A. Use the ShowNetwork property of the PageSetupDialog component to remove the Network button from the Page Setup dialog box.
- B. Use the PrinterSettings.PrinterName property to explicitly refer to the approved printers.
- C. Use the PrinterSettings.PaperSource property to explicitly refer to the approved paper sources.
- D. Set the AllowPrinter property of the PageSetupDialog component to False.
- E. Use the PageSettings.PaperSource property of the PageSetupDialog component to explicitly refer to the approved paper sources.

Answer: A

Question: 46

You are creating a Windows Form application. You add a new form named ClientNameDialog that will be used as a custom dialog box. The form contains custom control name btnOk, another button control named btnCancel, and a text box control named txtName. You need to notify the application's startup form which button was clicked when the dialog box is closed. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Use the ShowDialog method to display an instance of ClientNameDialog.
- B. Use the Show method and pass the current form as a parameter to display an instance of ClientNameDialog.
- C. Using the DialogResult property of the dialog box instance, indicate which button the user clicks on ClientNameDialog.
- D. Using the AcceptButton property of the dialog box instance, indicate which button the user clicks on ClientNameDialog.

Answer: A, C

Question: 47

You are creating an application named CompanyApp1. You use ClickOnce deployment to distribute CompanyApp1.exe and multiple Assemblies. Some users require only some of the functionality in CompanyApp1. 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 CompanyApp1.exe.manifest as optional.
- B. Mark each dependency in CompanyApp1.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: A, C, F

Question: 48

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: 49

You are creating a Windows Form that includes printing functionality to print an image of the form. A helper function with the following signature creates a bitmap of the current form.
Function CreateFormImageBitmap(ByVal graphic As Graphics) As _ Bitmap
You need to implement the PrintPage event handler to call the helper function and draw the image onto the print document. Which code segment should you use?

- A. Dim g As Graphics = e.Graphics
Dim formImageBitmap As Bitmap = CreateFormImageBitmap(g)
g.DrawImage(formImageBitmap, e.MarginBounds)
- B. Dim g As Graphics = Me.CreateGraphics()
Dim formImageBitmap As Bitmap = CreateFormImageBitmap(g)
g.DrawImage(formImageBitmap, g.ClipBounds)
g.Dispose()
- C. Dim g As Graphics = Me.CreateGraphics()
Dim formImageBitmap As Bitmap = CreateFormImageBitmap(e.Graphics)
g.DrawImage(formImageBitmap, g.ClipBounds)
g.Dispose()
- D. Dim g As Graphics = Me.CreateGraphics()
Dim formImageBitmap As Bitmap = CreateFormImageBitmap(g)
e.Graphics.DrawImage(formImageBitmap, e.MarginBounds)
g.Dispose()

Answer: D

Question: 50

Your law firm uses a custom application to create and print legal documents. Currently, users can

print any portion of a document that they want from the application by using the options in the Print dialog box. This Print dialog box was implemented by using the PrintDialog component. New security and auditing rules state that the application must implement a business rule that requires users to print documents in their entirety. Printing only portions of a document is prohibited. You need to modify the PrintDialog component named printDlg to enforce the business rule when a user prints. You must implement this rule with the minimum amount of impact to users. What should you do?

- A. Set the PrintDialog component to printDlg.PrinterSettings.PrintRange = PrintRange.AllPages.
- B. Call the printDlg.Reset method when the Print dialog box is closed.
- C. Configure the following settings for the PrintDialog component.
 printDlg.AllowSomePages = False
 printDlg.AllowSelection = False
 printDlg.AllowCurrentPage = False
- D. Create a warning message that displays if the user selects the Pages option in the Print dialog box to try to print a subset of a document. Use the following settings to set the full document to print.
 printDlg.PrinterSettings.FromPage = printDlg.PrinterSettings.MinimumPage
 printDlg.PrinterSettings.ToPage = printDlg.PrinterSettings.MaximumPage

Answer: C

Question: 51

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 If
 End Sub
- B. Sub CompletedHandler(ByVal sender As Object, ByVal e As _
 RunWorkerCompletedEventArgs)
 If Not UpdateDB() Then
 MessageBox.Show("Update failed")
 End If
 End 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 If
 End Sub

```

End If
End 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 If
End Sub
Sub ProgressChanged(ByVal sender As Object, ByVal e As _
ProgressChangedEventArgs)
If e.ProgressPercentage = 0 Then
MessageBox.Show("Update failed")
End If
End Sub

```

Answer: C

Question: 52

You are creating a Windows Forms application. You implement the asynchronous design pattern by using a delegate named `DataUpdateHandler`. `DataUpdateHandler` executes a method named `DataUpdater`. You create an instance of the `DataUpdateHandler` that has the variable name `Updater`. `DataUpdater` uses a `DataSet` class as a parameter and returns an integer value that indicates the number of rows that have been updated. You need to use a method named `DisplayResults` to display the results when the database update is complete. Which code segment should you use?

```

A. Dim result As IAsyncResult = Updater.BeginInvoke(mData, Nothing, _
Nothing)
' ...
Dim value As Integer = result.AsyncState
DisplayResults(value)
B. Dim result As IAsyncResult = Updater.BeginInvoke(mData, Nothing, _
Nothing)
' ...
Dim value As Integer = Updater.EndInvoke(result)
DisplayResults(value)
C. Dim result As IAsyncResult = Updater.BeginInvoke(mData, Nothing, _
"DisplayResults")
' ...
Updater.EndInvoke(result)
D. Dim result As IAsyncResult = Updater.BeginInvoke(mData, Nothing, _
"DataUpdater")
' ...
Updater.EndInvoke(result)

```

Answer: B

Question: 53

You want to execute an event handler asynchronously from a Windows Form. You need to write

code that uses the BackgroundWorker component named bgwExecute to execute the WorkHandler method.
Which code segment should you use?

- A Dim work As New EventHandler(AddressOf WorkHandler)bgwExecute.RunWorkerAsync(work)
- B Dim tsBackground As New ThreadStart(AddressOf WorkHandler)bgwExecute.ReportProgress(0, tsBackground)
- C Dim tsBackground As New ThreadStart(AddressOf WorkHandler)bgwExecute.RunWorkerAsync(tsBackground)
- D AddHandler bgwExecute.DoWork, AddressOf WorkHandlerbgwExecute.RunWorkerAsync()

Answer: D

Question: 54

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
```

A. Private Sub StartBackgroundProcess()

```
AddHandler bgwExecute.ProgressChanged, AddressOf CompletedHandler
Dim tsBackground As New ThreadStart(AddressOf WorkHandler)
bgwExecute.RunWorkerAsync(tsBackground)
End Sub
```

B. Private Sub StartBackgroundProcess()

```
AddHandler bgwExecute.RunWorkerCompleted, AddressOf CompletedHandler
Dim tsBackground As New ThreadStart(AddressOf WorkHandler)
bgwExecute.RunWorkerAsync(tsBackground)
End Sub
```

C. Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs)

```
...
e.Result = True
End Sub
```

D. Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs)

```
...
bgwExecute.ReportProgress(100, True)
End Sub
```

E. 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 If
```

```
End Sub
```

F. 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 If
End Sub

```

Answer: A,D,F

Question: 55

You are creating a Windows Forms application. You create a `System.Threading.Semaphore` instance in the application by using the following code.

```
Dim ThreadPool As Semaphore = New Semaphore(0, 3)
```

```
...
```

```
ThreadPool.Release(4)
```

What does this code do?

A. Sets the internal counter for the semaphore to 4.

B. Sets the internal counter for the semaphore to 0.

C. Throws a `SemaphoreFullException`.

D. Throws a `ThreadAbortException`.

Answer: C

Question: 56

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?

B. `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()
```

C. `Dim rdr As SqlDataReader = cmd.ExecuteReader()`

```
While rdr.Read()
```

```
lstPhones.Items.Add((rdr.GetString(0) + ControlChars.Tab +
```

```
rdr.GetString(1)))
```

```
End While
```

D. `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
E. 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: 57

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

```

Answer: C

Question: 58

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 XmlElement

For 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 XmlElement

For 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 XmlElement

For 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 XmlElement

For Each node In elements

lstBooks.Items.Add(node.InnerXml)

Next node

Answer: A

Question: 59

You create an application that provides accessibility features. Your standard forms display a background image. When the user selects Use High Contrast in the Accessibility Options in Control Panel, you want this image to be removed. You need to add an event to handle this accessibility setting change. Which event should you use?

A. Me.StyleChanged

B. SystemEvents.UserPreferenceChanged

C. Me.ChangeUICues

D. SystemEvents.DisplaySettingsChanged

Answer: B

Question: 60

You are localizing a Windows Forms application. You put all error message strings into a resource file named ErrorMessages.resx. When the resource file is compiled, a strongly typed resource class is generated. You need to retrieve an error message named CatastrophicErr from the exception-handling code. Which code segment should you use?

A. Dim s As String = My.Resources.ErrorMessages.CatastrophicErr

B. Dim s As String = _Settings.Default("ErrorMessages_CatastrophicErr").ToString()

C. Dim si As New StringInfo("ErrorMessages.CatastrophicErr") Dim s As String = si.String

```

D. Dim a As [Assembly] = [Assembly].GetExecutingAssembly()
Dim stream As Stream = _
a.GetManifestResourceStream("ErrorMessages.CatastrophicErr")
Dim sr As New StreamReader(stream)
Dim s As String = sr.ReadToEnd()

```

Answer: A

Question: 61

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: 62

You are customizing a Windows Form. The form includes a menu that has several ToolStripMenuItem controls. An event handler is configured to handle the Click event for all ToolStripMenuItem controls. The event handler has the following signature.

```

Private Sub mnu_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs)

```

The form class includes a method that has the following signature.

```

Private Sub LogClick(ByVal ctlName As String)

```

You need to add code so that when a user clicks a ToolStripMenuItem control, the mnu_Click method calls the LogClick method. The LogClick method must be called with the ctlName parameter set to the menu text in the ToolStripMenuItem control. Which code segment should you use?

- A. `Dim mnultem As ToolStripMenuItem = CType(sender, ToolStripMenuItem)`
`LogClick(mnultem.Text)`
- B. `LogClick(e.ToString())`
- C. `LogClick(Me.Text)`
- D. `Dim mnultem As ToolStripMenuItem = CType(Me.GetContainerControl(), ToolStripMenuItem)`
`LogClick(mnultem.Text)`

Answer: A

Question: 63

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 = MouseButton.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 = MouseButton.Right Then Dim mnuContext As New ContextMenuStrip() Dim cal As New MonthCalendar() Dim host As New ToolStripControlHost(cal) mnuContext.Items.Add(host) txtDate.ContextMenuStrip = mnuContextEnd If`

Answer: B

Question: 64

You are customizing a Windows Form. When the user clicks any button, you want the application to log information about the users actions by calling a method with the following signature.

```
Public Sub ctl_Click(ByVal sender As Object,
ByVal e As EventArgs)
```

You want the form to invoke this method when any Button control is clicked and only when a Button control is clicked. You need to modify the form to invoke this method without interfering with the existing operations of the application. What should you do?

- A. Add the following code to the form initialization.
`Dim ctl As Control
For Each ctl In Me.Controls
If TypeOf ctl Is Button Then
AddHandler ctl.Click, AddressOf ctl_Click
End If
Next ctl`
- B. Add the following code to the form initialization.
`AddHandler Me.Click, AddressOf ctl_Click`
- C. Use the Properties dialog box to set the Click event for each Button control on the form to the ctl_Click method.
- D. Use the Properties dialog box to set the Click event of the form to the ctl_Click method.

Answer: A

Question: 65

You are creating a custom control that displays an image in the background. You notice that when the control is resized, the background image flickers while the control is repeatedly repainted. You need to eliminate the background image flicker. Which three code segments should you use? (Each correct answer presents part of the solution. Choose three.)

- A. Me.SetStyle(ControlStyles.OptimizedDoubleBuffer, True)
- B. Me.SetStyle(ControlStyles.AllPaintingInWmPaint, True)
- C. Me.SetStyle(ControlStyles.UserPaint, True)
- D. Me.SetStyle(ControlStyles.ResizeRedraw, True)
- E. Me.SetStyle(ControlStyles.Opaque, True)

Answer: A,C,D

Question: 66

You are creating a custom Windows Forms control. On the background of the control, an ellipse completely filled with a colored gradient is drawn. The bounds for the ellipse are equal to the bounds for the control. The control must correctly repaint itself in all situations. You need to include the drawing of the ellipse in the OnPaint event handler for the custom control. Which code segment should you use?

- A. Dim linearGradientBrush = New LinearGradientBrush(_ Me.ClientRectangle, startGradient, endGradient, 45)
e.Graphics.FillEllipse(linearGradientBrush, e.ClipRectangle)
- B. Dim linearGradientBrush = New LinearGradientBrush(_ New Point(Me.Left, Me.Top), New Point(Me.Right, Me.Bottom), _startGradient, endGradient)
e.Graphics.FillEllipse(linearGradientBrush, e.ClipRectangle)
- C. Dim linearGradientBrush = New LinearGradientBrush(_ New Rectangle(Me.Left, Me.Top, Me.Width, Me.Height), _ startGradient, endGradient, 45, True)
e.Graphics.FillEllipse(linearGradientBrush, _ Me.Left, Me.Top, Me.Width, Me.Height)
- D. Dim linearGradientBrush = New LinearGradientBrush(Me.ClientRectangle, startGradient, endGradient, 45)
e.Graphics.FillEllipse(linearGradientBrush, Me.ClientRectangle)

Answer: D

Question: 67

You are creating a Windows Forms application that prints reports. The application uses the PrintDocument control to print the report and the PrintPreviewDialog control to preview reports as shown in the following code segment.

```
streamToPrint = New StreamReader("FileToPrint.txt")
Try
Dim pd As New PrintDocument()
AddHandler pd.PrintPage, AddressOf pd_PrintPage
Dim ppd As New PrintPreviewDialog()
ppd.Document = pd
ppd.ShowDialog()
Finally
streamToPrint.Close()
End Try
```

When a report is printed by using the Print method on the PrintDocument class, the output is correct. When the report is previewed by using the Print Preview dialog box, the output is correct. However, when the report is printed by using the Print button in the Print Preview dialog box, a single blank page is produced. You need to ensure that the output is correct when the Print button in the Print Preview dialog box is used. What should you do?

- A. In the event handler for the ppd.Click event, set the position of the streamToPrint.BaseStream property to 0.
- B. In the event handler for the ppd.PrintPreviewControl.Click event, set the position of the streamToPrint.BaseStream property to 0.
- C. In the event handler for the pd.PrintPage event, set the position of the streamToPrint.BaseStream property to 0.

D. In the event handler for the `pd.BeginPrint` event, set the position of the `streamToPrint.BaseStream` property to 0.

Answer: D

Question: 68

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: 69

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: 70

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  
05  
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: 71

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 Using
Using ts As New
TransactionScope(TransactionScopeOption.Required)
UpdateAccount()
ts.Complete()
End Using

Answer: A

Question: 72

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.ProgressPercentage
End 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.ProgressPercentage
End 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.ProgressPercentage
End 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.ProgressPercentage
End Sub

Answer: D

Question: 73

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: C,D

Question: 74

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 If
End Sub
Private Sub WorkHandler(ByVal sender As Object, ByVal e As DoWorkEventArgs)
...
e.Result = True
End 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 If
End 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 SubPrivate 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 SubPrivate 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 SubPrivate Sub WorkHandler(ByVal sender As Object, ByVal e As
DoWorkEventArgs)
'...
bgwExecute.ReportProgress(100, True)
End Sub

```

Answer: A

Question: 75

You are creating a Windows Forms application. You want to execute a method named ProcessAmount in the background of the application. The method you want to execute requires that an integer value of 13 is passed. You need to pass an integer value of 13 to a starting background thread. Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

- A. Dim ts As New ThreadStart(AddressOf ProcessAmount2)Dim t As New Thread(ts, 13)
- B. Dim ts As New ParameterizedThreadStart(AddressOf ProcessAmount)Dim t As New Thread(ts)
- C. t.Start()
- D. t.Start(13)

Answer: B,D

Question: 76

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 action 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: A, E

Question: 77

You are customizing a Windows Form. When the user clicks any button, you want the application to log information about the user's actions by calling a method with the following signature.

```
public void ctl_Click(object sender, EventArgs e)
```

You want the form to invoke this method when any Button control is clicked and only when a Button control is clicked.

You need to modify the form to invoke this method without interfering with the existing operations of the application.

What should you do?

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

```
foreach (Control ctl in this.Controls) {  
    if (ctl is Button) {  
        ctl.Click += new EventHandler(ctl_Click);  
    }  
}
```

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

```
this.Click += new EventHandler(ctl_Click);
```

- C. Use the Properties dialog box to set the Click event for each Button control on the form to the ctl_Click method.

- D. Use the Properties dialog box to set the Click event of the form to the ctl_Click method.

Answer: A

Question: 78

You are localizing a Windows Forms application. You put all error message strings into a resource file named ErrorMessage file. When the resource file is compiled, a strongly typed resource class is generated.

You need to retrieve an error message named CatastrophicErr from the exception-handling code. Which code segment should you use?

- A. strings s = ErrorMessage.CatastrophicErr ;

- B. strings s = Properties.Settings.Default["ErrorMessage_CatastrphicErr"].ToString();

- C. StringInfo si = new StringInfo("ErrorMesages.CatatrophicErr")

```
String s = si.String;
```

- D. Assembly a = Assembly.GetExecutingAsseblty();

```
Assembly a = Assembly.GetExecutingAssembly();
```

```
Stream stream = a.GetManifestReader(stream);
```

```
String s = sr.ReadToEnd();
```

Answer: A

Question: 79

A Windows Forms application includes resources that are localized for several languages. You

want to view your application when a user uses resources that are localized for the French language as spoken in France. This culture is denoted by the culture name fr-FR. You need to test the application by using the resources contained in the satellite assembly. You must not modify the regional settings of your computer. What should you do?

- A. Set the following assembly attribute.
[assembly: NeutralResourcesLanguage("fr-FR")]
- B. Add the following code to the application initialization.
RegionInfo ri = new RegionInfo("FR");
Thread.CurrentThread.Name = ri.NativeName;
- C. Add the following code to the application initialization.
Thread.CurrentThread.CurrentUICulture = new CultureInfo("fr-FR");
- D. Add the following code to the applicationSettings section of the application configuration file.
<setting name="CultureInfo" serializeAs="String">
<value> "fr-FR" </value>
</setting>

Answer: C

Question: 80

You are creating a custom control that displays an image in the background. You notice that when the control is resized the background image flickers. You need to eliminate the background image flicker. Which three code segments should you use? (Each correct answer presents part of the solution. Choose three.)

- A. this.SetStyle(ControlStyles.OptimizedDoubleBuffer, true);
- B. this.SetStyle(ControlStyles.AllPaintingInWmPaint, true);
- C. this.SetStyle(ControlStyles.UserPaint, true);
- D. this.SetStyle(ControlStyles.Opaque, true);

Answer: A, B, C

Question: 81

You are creating a custom Windows Forms control. On the background of the control, an ellipse completely filled with a colored gradient is drawn. The bounds for the ellipse are equal to the bounds for the control. The control must correctly repaint itself in all situations. You need to include the drawing of the ellipse in the OnPaint event handler for the custom control. Which code segment should you use?

- A. Brush linearGradientBrush = new LinearGradientBrush(e.ClipRectangle, startGradient, endGradient, 45);
- B. Brush linearGradientBrush = new LinearGradientBrush(new Point(this.Left, this.Top), new Point(this.Right, this.Bottom), startGradient, endGradient);
e.Graphics.FillEllipse(linearGradientBrush, e.ClipRectangle);
- C. Brush linearGradientBrush = new LinearGradientBrush(new Rectangle(this.Left, this.Top, this.Width, this.Height), startGradient, endGradient, 45, true);
e.Graphics.FillEllipse(linearGradientBrush, this.Left, this.Top, this.Width, this.Height);
- D. Brush linearGradientBrush = new LinearGradientBrush(this.ClientRectangle, startGradient, endGradient, 45);
e.Graphics.FillEllipse(linearGradientBrush, this.ClientRectangle);

Answer: D

Question: 82

Your law firm uses a custom application to create and print legal documents. Currently, users can print any portion of a document that they want from the application by using the options in the Print dialog box. This Print dialog box was implemented by using the PrintDialog component. New security and auditing rules state that the application must implement a business rule that requires users to print documents in their entirety.

You need to modify the PrintDialog component named printDlg to enforce the business rule when a user prints. You must implement this rule with the minimum amount of impact to users. What should you do?

- A. Set the PrintDialog component to printDlg.PrinterSettings.PrintRange = PrintRange.AllPages.
- B. Call the printDlg.Reset method when the Print dialog box is closed.
- C. Configure the following settings for the PrintDialog component.
 printDlg.AllowSomePages = false;
 printDlg.AllowSelection = false;
 printDlg.AllowCurrentPage = false;
- D. Create a warning message that display if the user selects the Pages option in the Print dialog box to try to print a subset of a document. Use the following settings to set the full document to print.
 printDlg.AllowSettings.FromPage = printDlg.PrinterSettings.MinimumPage;
 printDlg.AllowSettings.ToPage = printDlg.PrinterSettings.MaximumPage;

Answer: C**Question: 83**

You are creating a Windows Forms application that prints reports. The application uses the PrintDocument control to print the report and the PrintPreviewDialog control to preview reports as shown in the following code segment.

```
streamToPrint = new StreamReader("..\..\FileToPrint.txt");
try {
    PrintDocument pd = new PrintDocument();
    Pd.PrintPage += new PrintPageEventHandler(this.pd_PrintPage);
    PrintPreviewDialog ppd = new PrintPreviewDialog();
    ppd.Document = pd;
    ppd.ShowDialog();
}
finally {
```

When a report is printed by using the Print method on the PrintDocument class, the output is correct. When the report is previewed by using the Print Preview dialog box, the output is correct. However, when the report is printed by using the Print button in the Print Preview dialog box, a single blank page is produced.

You need to ensure that the output is correct when the Print button in the Print Preview dialog box is used. What should you do?

- A. In the event handler for the ppd.Click event, set the position of the streamToPrint.BaseStream property to 0.
- B. In the event handler for the ppd.PrintPreviewControl.Click event, set the position of the streamToPrint.BaseStream property to 0.
- C. In the event handler for the pd.PrintPage event, set the position of the streamToPrint.BaseStream property to 0.
- D. In the event handler for the pd.BeginPrint event, set the position of the

streamToPrint.BaseStream property to 0.

Answer: D

Question: 84

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. `this.DataBindings.Add("chkIsMaflager.CheCked", ds, "Users.IsManager");`

Answer: A

Question: 85

A Windows Forms application contains the following code segment.
`string SQL = @"SELECT OrderID, ProductID, UnitPrice, Quantity FROM [Order Details];`
`SqlDataAdapterda = new SqlDataAdapter(SQL, connStr);`
`DataTable dt = new DataTableO;`
`Da.Fill(dt);`

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

- A. `DataColumn col = new DataColumn("ItemSubtotal");`
`col.DataType = typeof(decimal);`
`col.Expression = "UnitPrice * Quantity";`
`Dt.Columns.Add(col);`
- B. `dt.Compute("UnitPrice * Quantity", "ItemSubtotal");`
- C. `DataColumn col = DataColumn("ItemSubtotal");`
`col.DataType = typeof(decimal);`
`dt.Columns.Add(col);`
`dt.Computer("UnitPrice * Quantity", "ItemSubtotal");`
- D. `DataColumn col = new DataColumn("ItemSubtotal");`
`col.DataType = typeof(decimal);`
`col.DefaultValue = "UnitPrice * Quantity" ;`
`dt.Colmunns.Add(col);`

Answer: A

Question: 86

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 foreach (DataRow row in dt.Rows) {  
02     foreach (DataColumn col in dt.Columns) {  
03  
04         Trace.WriteLine(str);  
05     }  
06 }
```

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 03?

- A. `string str = String.Format("Column was {0} is now {1}", row[col], row[col, DataRowVersion.Current]);`
- B. `string str = String.Format("Column was {0} is now {1}", row[col], DataRowVersion.Default, row[col]);`
- C. `string str = String.Format("Column was {0} is now {1}", row[col], row[col, DataRowVersion.Personal]);`
- D. `string str = String.Format("Column was {0} is now {1}", row[col], DataRowVersion.Original, row[col]);`

Answer: D

Question: 87

You are creating a Windows Forms application that includes the database helper methods `UpdateOrder` and `UpdateAccount`. Each method wraps code that connect 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 (TransactionScope ts = new TransactionScope()) {  
    UpdateOrder();  
    UpdateAccount();  
    ts.Complete();  
}
```
- B.

```
using (TransactionScope ts1 = new TransactionScope()) {  
    Update Order();  
    using (TransactionScope ts2 = new  
        TransactionScope(TransactionScopeOption.RequiresNew)) {  
        UpdateAccount();  
        ts2.Complete();  
    }  
    ts1.Complete();  
}
```
- C.

```
using (TransactionScope ts = new  
    TransactionScope(TransactionScopeOption.RequiresNew)) {  
    Update Order();  
    ts.Complete();  
}  
using (TransactionScope ts = new  
    TransactionScope(TransactionScopeOption.Required)) {  
    Update Order();  
    ts.Complete();  
}
```
- D.

```
using (TransactionScope ts = new  
    TransactionScope(TransactionScopeOption.RequiresNew)) {  
    Update Order();  
}  
using (TransactionScope ts = new
```

Answer: A

Question: 88

You are customizing a Windows Form to use a BackgroundWorker component named bgwExecute. bgwExecute perform a database operation by 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 void StartBackground() {
    bgwExecute.WorkReportsProgress = true;
    bgwExecute.ProgressChanged += new
    new ProgressChangedEventHandler(ProgressHandler);
    bgwExecute.RunWorkerAsnc();
}
void WorkHandler(object sender, DoWorkEventArgs e) {
    pbProgress.Value = e.ProgressPercentage;
}
void ProgressHandler(object sender, ProgressChangedEventArgs e) {
    ProgressChangedEventHandler(ProgressHandler);
    ThreadStart t = new ThreadStart(WorkHanler);
    bgwExecute.RunWorkerAsnc();
}

B. public void StartBackground() {
    bgwExecute.ProgressChanged += new
}
void WorkHandler() {
    bgwExecute.ReportProgress(50);
}
void ProgressHandler(object sender, ProgressChangedEventArgs e) {
    bgProgress.Value = e.ProgressPercentage;
}

C. public void StartBackground() {
    bgwExecute.WorkReportsProgress = true;
    bgwExecute.ProgressChanged += new
    ProgressChangedEventHandler(ProgressHandler);
    Thread t = new Thread(new ThreadStart(WordkHandler));
    bgwExecute.RunWorkerAsnc();
}
void WorkHandler() {
}
void ProgressHandler(object sender, ProgressChangedEventArgs e) {
    bgProgress.Value = e.ProgressPercentage;
}

D. public void StartBackground() {
    bgwExecute.WorkReportsProgress = true;
    bgwExecute.DoWork += new DoWorkEventHandler(WorkHandler);
    bgwExecute.ProgressChanged += new
    ProgressChangedEventHandler(ProgressHandler);
    bgwExecute.RunWorkerAsnc(); }
void WorkHandler(object sender, DoWorkEventArgs e)
void ProgressHandler(object sender, ProgressChangedEventArgs e) { pbProgress.Value
    e.ProgressPercentage;
```

Answer: D

Question: 89

You are customizing a Windows Form to asynchronously update a database in a method named WorkHandler.

You need to ensure that the form displays a message box to the user that indicates the success of failure of the update.

Which segment should you use?

```
A. private void StartBackgroundProcess() {
    bgwExecute.DoWork += new DoWorkEventHandler(WorkHandler);
    bgwExecute.RunWorkerCompleted +=
    new RunWorkerCompletedEventHandler(CompletedHandler);
    bgwExecute.RunWorkerAsync();
}
void CompleteHandler(object sender, Run WorkerCompletedEventArgs e_ {
    bool result = (bool) e.Result;
    MessageBox.Show("Upadate " + (result ? "was successful": "failed"));
}
void WorkHandler(object sender, DoWorkEventArgs e) {
    //...
    e.Result = true;
}

B. private void StartBackgroundProcess() {
    bgwExecute.RunWorkerCompleted +=
    new ProgressChangedEventHandler(CompletedHandler);
    ThreadStart tsBackground = new ThreadStart(WorkHandler);
    bgwExecute.RunWorkerAsync(tsBackground);
}
Void ProgressHandler(object sender, ProgressChangedEventArgs e) {
    Bool result = (bool)e.UserState;
    MessageBox.Show("Update " + (result ? "was successful" : "failed"));
}
Void WorkHandler() {
    //...
    bgwExecute.ReportProgress(100, true);
}

C. private void StartBackgroundProcess() {
    bgwExecute.RunWorkerCompleted +=
    new RunWorkerCompletedEventHandler(CompletedHandler);
    ThreadStart tsBackground = new ThreadStart(WorkHandler);
    bgwExecute.RunWorkerAsync(tsBackground);
}
void WorkHandler(object sender, RunWorkerCompletedEventArgs e) {
    bool result = (bool)e.Result;
    MessageBox.Show("Update " + (result ? "was successful" : "failed"));
}
Void WorkHandler() {
    //...
    e.Result = true;
}

D. Private void StartBackgroundProcess() {
    bgwExecute.RunWorkerCompleted +=
    new RunWorkerCompletedEventHandler(CompletedHandler);
    bgwExecute.RunWorkerAsync();
}
```

Answer: A

Question: 90

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

- A. `EventHandler work — new EventHandler(WorkHandler);`
- B. `ThreadStart work new 'hreadStart(WorkHandler);`
- C. `bgwExecute.DoWork new DoWorkEventHandler(WorkHandler);`
- D. `bgwExecute.RunWorkerAsync();`
- F. `bgwExecute.RunWorkerAsync(work);`

Answer: C, D

Question: 91

You are creating a Windows Forms application. You want to execute a method named `ProcessAmount` in the background of the application. The method you want to execute requires that an integer value of 13 is passed. You need to pass an integer value of 13 to a starting background thread.

Which two code segment should you use? (Each correct answer presents part of the solution. Choose two.)

- A. `ThreadStart ts = new ThreadStart(ProcessAmount);`
`Thread t = new Thread(ts, 13);`
- B. `ParameterizedThreadStart ts = new ParameterizedThreadStart ( ProcessAmount);`
`Thread t = new Thread(ts);`
- C. `t.Start();`
- D. `t.Start(13);`

Answer: B, D

Question: 92

You are creating a Windows Forms application that includes printing functionality to print an image of the form. A helper function with the following signature creates a bitmap of the current form.

`private Bitmap CreateFormImageBitmap(Graphics graphic)`

You need to implement the `PrintPage` event handler to call the helper function and draw the image onto the print document.

Which code segment should you use?

- A. `Graphics g = e.Graphics; Bitmap formImageBitmap = CreateFormImageBitmap(g)`
`e.Graphics.DrawImage(formImageBitmap, e.MarginBounds);`
- B. `Graphics g = this.CreateGraphics; Bitmap formImageBitmap = CreateFormImageBitmap(g),`
`g.DrawImage(formImageBitmap, g.ClipBounds); g.Dispose();`
- C. `Graphics g = this.CreateGraphics; Bitmap formImageBitmap =`
`CreateFormImageBitmap(e.Graphics); g.DrawImage(formImageBitmap, g.ClipBounds); g.`
`Dispose();`
- D. `Graphics g = this.CreateGraphics(); Bitmap formImageBitmap`
`CreateFormImageBitmap(g); e.Graphics.DrawImage(formImageBitmap, e.MarginBounds);`

Answer: D

Question: 93

You are creating a Windows Forms application. You create a `System.Threading.Semaphore` instance in the application by using the following code.

`Semaphore threadPool = new Semaphore(0,3); //... threadPool.Release(4);`

What does this code do?

- A. Sets the internal counter for the semaphore to 4.
- B. Sets the internal counter for the semaphore to 0.
- C. Throws a SemaphoreFullException.
- D. Throws a ThreadAbortException.

Answer: C

Question: 94

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 ... 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, 50F));`
`pnlLayout.ColumnStyles.Add(new ColumnStyle(SizeType.AutoSize, 100F));`
`pnlLayout.ColumnStyles.Add(new ColumnStyle(SizeType.Absolute, 50F));`
- B. `pnlLayout.ColumnStyles[0].Width = 50F;`
`pnlLayout.ColumnStyles[0].SizeType =`
`SizeType.Absolute;`
`pnlLayout.ColumnStyles[2].Width = 50F;`
`pnlLayout.ColumnStyles[2].SizeType =`
`SizeType.Absolute;`
- C. `pnlLayout.ColumnStyles[0].Width = 50F;`
`pnlLayout.ColumnStyles[0].SizeType =`
`SizeType.Absolute;`
`pnlLayout.ColumnStyles[1].Width = 100F;`
`pnlLayout.ColumnStyles[1].SizeType =`
`SizeType.Absolute;`
`pnlLayout.ColumnStyles[2].Width = 50F;`
`pnlLayout.ColumnStyles[2].SizeType =`
`SizeType.Absolute;`
- D. `pnlLayout.ColumnStyles.Clear`
`pnlLayout.ColumnStyles.Add(new ColumnStyle(SizeType.Absolute, 50F));`
`pnlLayout.ColumnStyles.Add(new ColumnStyle(SizeType.Percent, 100F));`
`pnlLayout.ColumnStyles.Add(new ColumnStyle(SizeType.Absolute, 50F));`

Answer: D

Question: 95

You are creating a Windows Forms application. You implement the asynchronous design pattern by using a delegate named DataUpdateHandler. DataUpdateHandler executes a method named DataUpdater. You create an instance of the DataUpdateHandler that has the variable name Updater.

DataUpdater uses a DataSet class as a parameter and returns an integer value that indicates the number of rows that have been updated. You need to use a method name DisplayResult to display the result when the database update is complete.

Which code segment should you use?

- A. `IAsyncResult result = Updater.BeginInvoke(mData, null, null);`
`// - - -`
`int value = (int)result.AsyncState;`
`DisplayResult(value);`
- B. `IAsyncResult result = Updater.BeginInvoke(mData, null, null);`
`int value = Updater.EndInvoke(result);`
`DisplayResult(value);`
- C. `IAsyncResult result = Updater.BeginInvoke(mData, null, "DisplayResults");`
`// - - -`
`Updater.EndInvoke(result);`
- D. `IAsyncResult result = Updater.BeginInvoke(mData, null, "DataUpdater");`

```
// - - -  
Updater.EndInvoke(result);
```

Answer: B

Question: 96

You want to execute an event handler asynchronously from a Windows Form. You need to write code that uses the BackgroundWorker component named bgwExecute to execute the WorkHandler method.

Which code segment should you use?

- A. EventHandler work = new EventHandler(WorkHandler);
bgwExecute.RunWorkerAsync(work);
- B. ThreadStart tsBackground = new ThreadStart(WorkHandler); bgwExecute.ReportProgress(100, tsBackground);
- C. ThreadStart tsBackground = new ThreadStart(WorkHandler);
bgwExecute.RunWorkerAsync(tsBackground);
- D. bgwExecute.DoWork = + new DoWorkEventHandler(WorkHandler);
bgwExecute.RunWorkerAsync();

Answer: D

Question: 97

You are customizing a Windows Form. The form includes a menu that has several ToolStripMenuItem controls. An event handler is configured to handle the Click event for all ToolStripMenuItem controls. The event handler has the following signature. private void menu_Click(object sender, EventArgs e) The form class includes a method that has the following signature. private void LogClick(string ctrlName) You need to add code so that when a user clicks a ToolStripMenuItem control, the menu_Click method calls the LogClick method. The LogClick method must be called with the ctrlName parameter set to the menu text in the ToolStripMenuItem control. Which code segment should you use?

- A. ToolStripMenuItem mnuitem = (ToolStripMenuItem)sender;
LogClick(mnuitem.Text);
- B. LogClick (e.ToString);
- C. LogClick(this.Text);
- D. ToolStripMenuItem mnuitem = (ToolStripMenuItem)sender;
this.GetContainerControl();
LogClick(mnuitem.Text).

Answer: A

Question: 98

You are creating a Windows Form that includes a TextBox control named txtDate. When a user right click 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.
MonthCalendar cal = new MonthCalendar() ;
ContextMenuStrip rnuContext = new ContextMenuStrip();
ToolStripControlHost host = new
ToolStripControlHost (mnuContext)
txtlDate.ContextMenuStrip = rnuContext
- B. Add the following code to the form initialization.

```

ContextMenuStrip mnuContext = new ContextMenuStrip();
MonthCalendar cal = new MonthCalendar();
ToolStripControlHost host = new
ToolStripControlHost(cal);
mnuContext.Items.Add(host); txtDate.ContextMenuStrip = mnuContext;
C. Add the following code to the form initialization.
ToolStripContainer ctr = new ToolStripContainer();
MonthCalendar cal = new MonthCalendar
ctr.ContentPanle.Controls. Add(cal):
txtDate.Controls.Add(ctr);
Add a MouseClick event handler for the TextBox control that contains the following
code.
if (e.Button == MouseButton.Right) {
txtDate.Controls[0].Show();
}
D. Add a MouseClick event handler for the TextBox control that contains the following
code.
if (e.Button == MouseButton.Right) {
ContextMenuStrip mnuContext = new ContextMenuStrip();
MonthCalendar cal = new MonthCalendar();
ToolStripControlHost host = new

```

Answer: B

Question: 99

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 CompnayName, 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?

```

do {
while (rdr.Read()) {
lstPhones.Items.Add(rdr.GetString(0) + "\t"
}
while (rdr.Read()) {
lstPhones.Items.Add(rdr.GetString(0) + "\t"
}
while (rdr.NextResult()) {
while (rdr.Read()) {
lstPhones.Items.Add(rdr.GetString(0) + "\t"
}}
while (rdr.NextResult()) {
lstPhones.Items.Add(rdr.GetString(0) + "\t"
}

```

Answer: A

Question: 100

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>Ralis, 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. XmlNodeList elements = docBooks.GetElementsByTagName("book"); foreach (XmlNode element in elements) {
string s = node.GetAttribute("id") + "-";
s += node.SelectSingleNode("title").InnerText;
lstBooks.Items.Add(s);
}
- B. XmlNodeList elements = docBooks.GetElementsByTagName("book"); foreach (XmlElement node in elements) {
string s = node.SelectSingleNode("id") + "-"; s += node.GetAttribute("title");
lstBooks.Items.Add(s);
}
- C. XmlNodeList elements = docBooks.GetElementsByTagName("book"); foreach (XmlElement node in elements) {
string s = node.GetAttribute("id") + "-";
s += node.SelectSingleNode("title").Value;
lstBooks.Items.Add(s);
}
- D. XmlNodeList elements = docBooks.GetElementsByTagName("book"); foreach (XmlElement node in elements) {
lstBooks.Items.Add(node.InnerXml);
}

Answer: A

Question: 101

A Windows Forms application contains the following code segment.
string SQL = @"SELECT EmployeeID, LastName, FirstName, FROM
Employees";

```

SqlDataAdapter da = new SqlDataAdapter(SQL, connStr); DataTable dt = new DataTable();
da.MissingSchemaAction = MissingSchemaAction.AddWithKey; SqlCommandBuilder bld = 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 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.ContinueUpdateError = true;
da.Update(dt);
DataTable dtErrors = dt.GetChanges(DataRowState.Unchanged);
Trace.WriteLine(dtErrors.Rows.Count.ToString() +
" rows not added.");
- B. da.ContinueUpdateOnError = false;

```

da.Update(dt);
DataTable dtErrors = dt.GetChanges(DataRowState.Unchanged);
Trace.WriteLine(dtErrors.Rows.Count.ToString +
"rows not added.");
C. da.ContinueUpdateOnError = true;
da.Update(dt);
DataRow[] rows = dt.GetErrors();
Trace.WriteLine(rows.Length.ToString() + " rows not added.");
D. da.ContinueUpdateOnError = false;
da.Update(dt);
DataRow[] rows = dt.GetErrors();
Trace.WriteLine(rows.Length.ToString() + " rows not added.");

```

Answer: C

Question: 102

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

```

A. private void StartBackGroundProcess() {
    bgwExecute.DoWork += new DoWorkEventHandler(WorkHandler);
    bgwExecute.RunWorkerCompleted +=
    new RunWorkerCompletedEventHandler(CompletedHandler);
    bgwExecute.RunWorkerAsync();
}
B. private void StartBackgroundProcess() {
    bgwExecute.ProcessChanged +=
    new ProgressChangedEventHandler(CompletedHandler);
    ThreadStart tsBackground = new ThreadStart(WorkHandler);
    bgwExecute.RunWorkerAsync(tsBackground);
}
C. private void StartBackgroundProcess() {
    bgwExecute.RunWorkerCompleted +=
    new RunWorkerCompletedEventHandler(CompletedHandler);
    ThreadStart tsBackground = new ThreadStart(WorkHandler);
    bgwExecute.RunWorkerAsync(tsBackground);
}
D. void WorkHandler(object sender, DoWorkEventArgs e) {
    // ...
    e.Result = true;
}
E. void WorkHandler(object sender, DoWorkEventArgs e) {
    // ...
    bgwExecute.ReportProgress(100, true);
}
F. void CompletedHandler(object sender, RunWorkerCompletedEventArgs e) {
    bool result = (bool)e.Result;
    MessageBox.Show("Update " + (result ? "was successful" : "failed"));
}
G. void ProgressHandler(object sender, ProgressChangedEventArgs e)
{
    bool result = (bool)e.UserState;
    MessageBox.Show("Update " + (result ? "was successful" : "failed"));
}

```

```
}
```

Answer: A, D, F

Question: 103

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 void StartBackgroundProcess() {  
    bgwExecute.DoWorkerCompleted +=  
    bgwExecute.ProgressChanged += new  
}
```

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 void WorkHandler(object sender, DoWorkEventArgs e) {  
    If(!UpdateDB())MessageBox.Show("Update failed");  
}
```

```
B void CompletedHandler(object sender, RunWorkerCompletedEventArgs e) {  
    If(!UpdateDB())MessageBox.Show("Update failed");  
}
```

```
C void WorkHandler(object sender, DoWorkEventArgs e) {  
    e.Result = UpateDB();  
}
```

```
void CompletedHandler(object sender, RunWorkerCompletedEventArgs e) {  
    If(!UpdateDB())MessageBox.Show("Update failed");  
}
```

```
D void WorkHandler(object sender, DoWorkEventArgs e) {  
    e.Result = UpateDB();  
}
```

```
void CompletedHandler(object sender, RunWorkerCompletedEventArgs e) {
```

Answer: C

Question: 104

You create an application that provide accessibility features. Your standard forms display a background image. When the user selects Use High Contrast in the Accessibility Options in Control Panel, you want this image to be removed.

You need to add an event to handle this accessibility setting change.

Which event should you use?

- A. this.StyleChanged
- B. SystemEvents.UserPreferenceChanged
- C. this.ChangeUICues
- D. SystemEvents.DisplaySettingsChanged

Answer: B

Question: 105

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 action 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: A, E

Question: 106

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.
`MonthCalendar ^cal = gnew MonthCalendarO;
ContextMenuStrip ^mnuContext gnew ContextMenuStrip
ToolStripControlHost ^host = gnew ToolStripControlHost(mnuContext);
txtDate->ContextMenuStrip = rnnuContext;`
- B. Add the following code to the form initialization.
`ContextMenuStrip ^mnuContext =
gnew ContextMenuStrip();
MonthCalendar ^cal = gnew MonthCalendar();
ToolStripControlHost ^host = gnew ToolStripControlHost (Cal)
mnuContext->Items->Add(host);
txtDate->ContextMenuStrip = mnuContext;`
- C. Add the following code to the form initialization.
`ToolStripContainer ^ctr = gnew
ToolStripContainer();
MonthCalendar ^cal = gnew 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 == Mouse.Button::Right) { txtDate->Controls[0]->Show();
}
- D. Add a MouseClick event handler for the TextBox control that contains the following code.
`if(e->Button == MouseButton::Right) {ContextMenuStrip AnrnuContext = gnew
ContextMenuStrip();
MonthCalendar ^cal = genew MonthCalendar();
ToolStripControlHost ^host = gnew ToolStripControlHost(cal);
mnuContext->Items->Add(host);
txtDate->ContextMenuStrip
}`

Answer: B

Question: 107

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->ColumnnStyles->Clear();
pnlLayout->ColumnnStyles->Add(gcnew ColumnnStyle(SizeType: :Absolute, 50));
pnlLayout->ColumnnStyles->Add(gcnew ColumnnStyle(SizeType: :AutoSize, 100));
pnlLayout->ColumnnStyles->Add(gcnew ColumnnStyle(SizeType: :Absolute, 50));
B. pnlLayout->ColumnnStyles[0]->Width = 50;
pnlLayout->ColumnnStyles[0]->SizeType = SizeType: :Absolute;
pnlLayout->ColumnnStyles[2]->Width = 50;
pnlLayout->ColumnnStyles[2]->SizeType = SizeType: :Absolute;
C. pnlLayout->ColumnnStyles[0]->Width = 50;
pnlLayout->ColumnnStyles[0]->SizeType = SizeType: :Absolute;
pnlLayout->ColumnnStyles[1]->Width = 100;
pnlLayout->ColumnnStyles[1]->SizeType = SizeType: :AutoSize;
pnlLayout->ColumnnStyles[2]->Width = 50;
pnlLayout->ColumnnStyles[2]->SizeType = SizeType: :Absolute;
D. pnlLayout->ColumnnStyles->Clear
pnlLayout->ColumnnStyles->Add(gcnew ColumnnStyle(SizeType: :Absolute, 50));
pnlLayout->ColumnnStyles->Add(gcnew ColumnnStyle(SizeType: :Perccnt, 100));
pnlLayout->ColumnnStyles->Add(gcnew ColumnnStyle(SizeType: :Absolute, 50));

Answer: D

Question: 108

You are customizing a Windows Form. The form includes a menu that has several ToolStripMenuItem controls. An event handler is configured to handle the Click event for all ToolStripMenuItem controls. The event handler has the following signature.

```
private: void mnu_Click(Object ^sender, EventArgs ^e)
```

The form class includes a method that has the following signature.

```
private: void LogClick(String ^ctlName)
```

You need to add code so that when a user clicks a ToolStripMenuItem control, the mnu_Click method calls the LogClick method. The LogClick method must be called with the ctlName parameter set to the menu text in the ToolStripMenuItem control. Which code segment should you use?

A. ToolStripMenuItem ^ mnuitem = (ToolStripMenuItem^)sender;
LogClick(mnuitem->Text);
B. LogClick (c->ToString);
C. LogClick(this->Text);
D. ToolStripMenuItem ^mnuitem = (ToolStripMenuItem^) this->GetContainercontrol();
LogClick(mnuitem->Text);

Answer: A

Question: 109

You are localizing a Windows Forms application. You put all error message strings into a resource file named ErrorMessages.resx. When the resource file is compiled, a strongly typed resource class is generated. You need to retrieve an error message named CatastrophicErr from the exception-handling code. Which code segment should you use?

A. ResourceManager ^LocRLM = gcnew ResourceManager("TestAppErrorMessages".
System: :Reflection: :Assembly: :GetExecutingAssembly());
String ^s = LocRM->GetString("CatastrophicErr");
B. String s =
ConfigurationSettings: :AppSettings["ErrorMessages CatastrophicErr"]->ToString();
C. StringInfo ^si = gcnew StringInfo(ErrorMessages.CatastrophicErr);

```
String ^s = si->String;
D. Assembly ^a = Assembly::GetExecutingAssembly();
Stream ^stream = a->GetManifestResourceStream( "ErrorMessages.CatastrophicErr");
StreamReader ^sr = gcnew StreamReader(stream);
String ^s sr->ReadToEnd();
```

Answer: A

Question: 110

You create an application that provides accessibility features. Your standard forms display a background image. When the user selects Use High Contrast in the Accessibility Options in Control Panel, you want this image to be removed. You need to add an event to handle this accessibility setting change. Which event should you use?

- A. this->StyleChanged
- B. SystemEvents::UserPreferenceChanged
- C. this->ChangeUICues
- D. SystemEvents::DisplaySettingsChanged

Answer: B

Question: 111

You are creating a Windows Form that includes printing functionality to print an image of the form. A helper function with the following signature creates a bitmap of the current form.

```
private: Bitmap ^CreateFormImageBitmap(Graphics ^graphic)
```

You need to implement the PrintPage event handler to call the helper function and draw the image onto the print document. Which code segment should you use?

- A. Graphics ^g = e->Graphics;
Bitmap ^form ImageBitmap = CreateForm ImageBitmap (g); e->Graphics->DrawImage(formImageBitmap, e->MarginBounds);
- B. Graphics ^g = this->CreateGraphics();
Bitmap ^form ImageBitmap = CreateForm ImageBitmap(g);
g->DrawImage(formImage Bitmap, g->ClipBounds);
- C. Graphics ^g = this->CreateGraphics();
Bitmap ^formImageBitmap = CreateFormImageBitmap(e->Graphics);
g->DrawImage(formImageBitmap, g->ClipBounds);
- D. Graphics ^g = this->CreateGraphics();
Bitmap ^formImageBitmap CreateFormImageBitmap(g);
e->Graphics->DrawImage(formImageBitmap, e->MarginBounds);

Answer: D

Question: 112

Your law firm uses a custom application to create and print legal documents. Currently, users can print any portion of a document that they want from the application by using the options in the Print dialog box. This Print dialog box was implemented by using the PrintDialog component. New security and auditing rules state that the application must implement a business rule that requires users to print documents in their entirety. Printing only portions of a document is prohibited. You need to modify the PrintDialog component named printDlg to enforce the business rule when a user prints. You must implement this rule with the minimum amount of impact to users. What should you do?

- A. Set the PrintDialog component to printDlg->PrinterSettings->PrintRange = PrintRange::AllPages.

B. Call the printDlg->Reset method when the Print dialog box is closed.
 C. Configure the following settings for the PrintDialog component.
 printDlg->AllowSomePages = false;
 printDlg->AllowSelection = false;
 printDlg->AllowCurrentPage = false;
 D. Create a warning message that displays if the user selects the Pages option in the Print dialog box to try to print a subset of a document. Use the following settings to set the full document to print.
 printDlg->PrinterSettings->FromPage =
 printDlg->PrinterSettings->MinimumPage;
 printDlg->PrinterSettings->ToPage = printDlg->PrinterSetting->MaximumPage;

Answer: C

Question: 113

A Windows Forms application contains the following code segment.
 String ^SQL = "SELECT EmployeeID, LastName, FirstName FROM
 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?

```
Employees";
SqlDataAdapter ^da = gcnew SqlDataAdapter(SQL, connStr);
DataTable ^dt gcnew DataTable();
da->MissingSchemaAction :: MissingSchemaAction :: AddWithkey;
SqlCommandBuildce ^bld = gcnew SqlCommandBuilder(da);
da-> Fill(dt);

A. da->ContinueUpdateOnError = true;
da->Update(dt);
DataTable ^dtErrors = dt->GetChanges(Data RowState :: Unchanged);
Trace :: WriteLine(dtErrors->Rows->Count.ToString() + " rows not added.");
B. da->ContinueUpdateOnError = false;
da->Update(dt);
DataTable Adttffors = dt->GetChanges(DataRowState: :Unchanged);
Trace::WriteLine(dtErrors->Rows->CountToString() + "rows not added.");
C. da->ContinueUpdateOnError = true;
da->Update(dt);
array<DataRow> ^rows = dt->GetErrors();
Trace:: Writel ine(rows->Length.ToString() 4 rows not added.");
D. da->ContinueUpdateOnError = false;
da->Update(dt);
array<DataRow> ^rows = dt->GetErrors();
Trace: :WriteLine(rows->Length.ToString() +" rows not added.");
```

Answer: C

Question: 114

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. SqlDataReader ^rdr = cmd->ExecuteReader
do { while (rdr->Read()) { 1Phones->Items->Add(rdr->GetString(0) + "\t" + rdr->GetString(1));
} } while (rdr->NextResult());
B. Sql Data Reader ^rdr = cmd->ExecuteReader();
while (rdr->Read()) { 1Phones->Items->Add(rdr->GetString(0) + "\t" +
rdr->GetString(1));
C. SqlDataReader ^rdr = cmd->ExecuteReader ()
while (rdr->NextResult()) { while (rdr->Read()) {
1Phones->Items->Add(rdr->GetString(0) + "\t" + rdr->GetString(1));
D. Sql DataReader ^rdr = cmd->ExecuteReader();
while rdr->NextResult() { 1stPhones->Items->Add(rdr->GetString(0) + "\t" + rdr->GetString(1));
}
```

Answer: A

Question: 115

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. XmlNodeList ^elements = docBooks->GetElementsByTagName("book");
for each (XmlElement ^node in elements) { String s = node->GetAttribute("id") + "-" +
"node->SelectSingleNode("title")->InnerText 1stBooks->Items->Add(s);
}
B. XmlNodeList ^elements = docBooks->GetElementsByTagName("book");
for each XmlElement ^node in elements) { String ^s = node->SelectSingleNode("id") +
"-";
s += node->GetAttribute("title");
1stBooks->Items->Add(s);
C. XmlNodeList elements = docBooks->GetElementsByTagName("book")
for each (XmlElement ^node in elements) { String ^s = node->GetAttribute("id") + "-" +
s += node->SelectSingleNode("title")->Value;
1stBooks->Items->Add(s);
D. XmlNodeList ^element = docBooks->GetElementsByTagName("book");
for each (XmlElement ^node in elements) { 1stBooks->Items->Add(node->InnerXml);
```

Answer: A

Question: 116

You are creating a Windows Forms application. You implement the asynchronous design pattern by using a delegate named DataUpdateHandler. DataUpdateHandler executes a method named DataUpdater. You create an instance of the DataUpdateHandler that has

the variable name Updater. DataUpdater uses a DataSet class as a parameter and returns an integer value that indicates the number of rows that have been updated. You need to use a method named DisplayResults to display the results when the database update is complete. Which code segment should you use?

- A. `IAAsyncResult^ result = Updater->BeginInvoke(mData, nullptr, nullptr); // - - - other work or synchronizationint value = (int)result->AsyncState; DisplayResults(value);`
- B. `IAAsyncResult^ result = Updater->BeginInvoke(mData, nullptr, nullptr); // - - -other work or synchronizationint value = Updater->EndInvoke(result); DisplayResults(value);`
- C. `IAAsyncResult^ result = Updater->BeginInvoke(mData, nullptr, "DisplayResults"); // - - - other work or synchronizationUpdater->EndInvoke(result);`
- D. `IAAsyncResult result = Updater-> Begin I nvoke(nul )ata, nul lptr. "I)ataUpdater"); /1... other work or synchronizationUpdater->EndInvoke(result);`

Answer: B

Question: 117

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: void StartBackgroundWorkerProcess() { bgwExecute->DoWork += gcnnew DoWorkEventHandler(this, &Form1 :: WorkHandler); bgwExecute->RunWorkerCompleted += gcnnew RunWorkerCompletedEventHandler(this, &Form1 :: CompletedHandler); bgwExecute->RunWorkerAsync(); }`
- B. `private: void StartBackgroundWorkerProcess() { bgwExecute->ProgressChanged += gcnnew ProgressChangedEventHandler(this, &Form1 :: CompletedHandler); ThreadStart^ tsBackground = gcnnew ThreadStart(this, &Form1 :: WorHanlder); bgwEcecute->RunWorkerAsync(tsBackground); }`
- C. `private: void StartBackgroundWorkerProcess() { bgwExecute->RunWorkerCompleted += gcnnew RunWorkerComoletedEventHandler(this, &Form1 :: CompletedHandler); ThreadStart^tsBackground = gcnnew ThereadStart(this, &Form1 :: WorkHandler); bgwExecute->RunWorkerAsync(tsBackground); }`
- D. `void WorkHandler(Object^ sender, DoWorkEventArgs^ e) { // ...e->Result = true; }`
- E. `void WorkHandler(Object^ sender, DoWorkEventArgs^ e) { // ... bgwExecute->ReportProgress(100, true); }`
- F. `void CompletedHandler(Object^ sender, RunWorkerCompletedEventArgs^ e){ bool result = (bool)e->Result; MessageBox :: Show("Update" + (result ? "was successful" : "failed")); }`
- G. `void CompletedHandler(Object^ sender, ProgressChangedEventArgs^ e){ bool result =(bool)e->UserState; MessageBox::Show("Update " + (result ? "was successfult" : "failed"));`

Answer: A,D,F

Question: 118

You want to execute an event handler asynchronously from a Windows Form. You need to write code that uses the BackgroundWorker component named bgwExecute to execute the

WorkHandler method. Which code segment should you use?

- A. EventHandler^ work = gcnew EventHandler(this, &Form1 ::WorkHandler); bgwExecute->RunWorkerAsync(work)
- B. ThreadStart^ tsBackground = gcnew ThreadStart(this, &Form1::WorkHandler); bgwExecute->ReportProgress(100.tsBackground);
- C. ThreadStart^ tsBackground = new ThreadStart(this, &Form1::WorkHandler); bgwExecute->RunWorkerAsync(tsBackground);
- D. bgwExecute->DoWork + new DoWorkEventHandler(this, &Form1 : WorkHandler) gwExecute..).RunWorkerAsync

Answer: D

Question: 119

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: void StartBackgroundProcess(){
    bgwExecute->DoWork += gcnew DoWorkEventHandler(this, &Form1:: WorkHandler);
    bgwExecute->RunWorkerCompleted +=
    gcnew RunWorkerCompletedEventHandler(this, &Form1 : CompletedHandler);
    bgwExecute->WorkerReportsProgress = true;
    bgwExecute->ProgressChanged += gcnew
    ProgressChangedEventHandler(this, &Form1 :: ProgressChanged);
    bgwExecute->RunWorkerAsync();
}
```

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. void WorkHandler(Object^ sender, DoWorkEventArgs^ e) { if (!UpdateDB())
MessageBox::Show("Update failed");
}
- B. void CompletedHandler(Object^ sender, RunWorkerCompletedEventArgs^ e){ if (!
MessageBox::Show("Update failed");
}
- C. void CompletedHandler(Object^ sender, DoWorkEventArgs^ e) {e->Result = UpdateDB();
void CompletedHandler(Object^ sender,RunWorkerCompletedEventArgs^ e) { if
(!(bool) e->Result) MessageBox:: Show("Update failed");
}
- D. void WorkHandler(Object^ sender, DoWorkEventArgs^ e) { e->Result = UpdateDB();
} void CompletedHandler(Object^ sender, RunWorkerCompletedEventArgs^ e) {if
(!(bool) e->Result) bgwExecute->ReportProgress(0);
}void CompletedChanged(Object^ sender, ProgressChangedEventArgs ^e) {if
(e->ProgressPercentage==0) MessageBox::Show("Update failed");
}

Answer: C

Question: 120

You are creating a Windows Forms application. You create a System.Threading.Semaphore instance in the application by using the following code.

```
Semaphore^ threadPool = gcnew Semaphore(0, 3) ;
```

```
//...
```

```
threadPool->Release(4);
```

What does this code do?

- A. Sets the internal counter for the semaphore to 4.
- B. Sets the internal counter for the semaphore to 0.
- C. Throws a SemaphoreFullException.
- D. Throws a ThreadAbortException.

Answer: C

Question: 121

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: void StartBackground() { bgwExecute->WorkerReportsProgress = true;
bgwExecute->ProgressChanged += gcnew ProgressChangedEventHandler(this,
&SolutionA::ProgressChagned);
bgwExecute->RunWorkerAsync();
}
void WorkHandler(Object^ sender, DoWorkEventArgs^ e){ bgwExecute-
>ReportProgress(50);
}
void ProgressChanged(Object^ sender, ProgressChangedEventArgs^ e){ pbProgress->Value
= e->ProgressPercentage;
}
}
```
- B.

```
public: void StartBackground() { bgwExecute->WorkerReportsProgress = true;
bgwExecute->ProgressChanged += gcnew ProgressChangedEventHandler(this,
&SolutionB::ProgressChanged);
ThreadStart^ t = gcnew ThreadStart (this, &SolutionB:: WorkHandler);
bgwExecute->RunWorkerAsync(t);
}
void WorkHandler() { bgwExecute->ReportProgress(50);
void ProgressChanged(Object^ sender, ProgressChangedEventArgs^ e){pbProgress->Value
= e->ProgressPercentage;
}
}
```
- C.

```
public: void StartBackground() { bgwExecute->WorkerReportsProgress = true;
bgwExecute->ProgressChanged += gcnew ProgressChangedEventHandler(this,
&SolutionC::ProgressChanged);
ThreadStart^ t = gcnew ThreadStart(gcnew ThreadStart(this, &Solutionc:: WorkHandler));
bgwExecute->RunWorkerAsync(t);
}void WorkHandler() { bgwExecute->ReportProgress(50);
}void ProgressChanged(Object^ sender, ProgressChangedEventArgs^ e){pbProgress->Value
= e->ProgressPercentage;
}
}
```
- D.

```
public: void StartBackground() { bgwExecute->WorkerReportsProgress = true;
bgwExecute->DoWork += gcnew DoWorkEventHandler(this, &SolutionD::WorkHandler);
bgwExecute->ProgressChanged+= gcnew PregressChangedEventHandler(this, &SolutionD::
PregressHandler);
bgwExecute->RunWorkerAsync();
}void WorkHandler(Object^ sender, DoWorkEventArgs^ e) {bgwExecute-
>ReportProgress(50);
}
```

```

} void ProgressHandler(Object^ sender,ProgressChangedEventArgs^ e) {pbProgress->Value
= e->ProgressPercentage;

```

Answer: D

Question: 122

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. EventHandler^ work = gcnew EventHandler(this, &^Form1:: WorkHandler);
- B. ThreadStart^ work = gcnew ThreadStart(this, &Form1:: WorkHanlder);
- C. bgwExecute->DoWork += gcnew DoWorkEventHandler(this, &Form1:: WorkHanlder);
- D. bgwExecute->RunWorkerAsync();

Answer: C,D

Question: 123

You are creating a Windows Forms application. You want to execute a method named ProcessAmount in the background of the application. The method you want to execute

requires that an integer value of 13 is passed. You need to pass an integer value of 13 to a starting background thread. Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

- A. A.ThreadStart^ ts = gcnew ThreadStart(this,&Form1::ProcessAmount);
ThreadStart^ t new Thread(ts, 13);
- B. ParameterizedThreadStart^ ts = gcnew ParameterizedThreadStart(this, &Form1::ProcessAmount);
Thread^ t = gcnew Thread(ts);
- C. C.t->Start();
- D. D.t->Start(13);

Answer: B,D

Question: 124

You are customizing a Windows Form to update asynchronously a database 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: Void StartBackgroundProcess() { bgwExecute->DoWork = gcnew DoWorkEventHandler(this, & Form1 ::WorkHandler);
bgwExecute>RunWorkerCompleted + gcnew RunWorkerComplctetedEventHandler(this, &Form I : :ComplctcdHanlcr); bgwhxccutc-> Run WorkerAsync();
Void CornpletedHandler(Object^ sender. RunWorkerCompletedEventArgs^ e) { bool result = (bool)e->Result;
MessageBox::Show("Update" + (result ? "was Successful" : "Failed"));
Void WorkHandler(Object^ sender, DoWorkEvcntArgs^ e) { //.... e->Result true;
}
}
- B. private: Void StartBackgroundProcess() { bgwExecute->DoWork+ = gcnew ProgressChangedEventArgs(this, &form1::ProgressHandler);
ThreadStart^ ts Background = gcnew ThreadStart(this, &Form1::WorkHandler);

```

bgwExecute>RunWorkerAsync(ts Background):
Void ProgressHandler(Object^ sender. ProgressChangedEventArgs^ e) { bool result =
(bool)e->Result;
MessageBox::Show("Update" + (result ? "was Successful" : "failed"));
}
Void WorkHandler(bgwExecute>RunWorkerAsync(100, true):
}
C. private: Void StartBackgroundProcess() { bgwExecute->RunWorkerCompleted+ = gcnew
RunWorkerCompletedEventHandler(this, &SolutionC::CompletedHandler);
ThreadStart^ ts Background = gcnew ThreadStart(this, & SolutionC::WorkHandler);
bgwExecute>RunWorkerAsync(ts Background):
}
Void CompletedHandler(Object^ sender. RunWorkerCompletedEventArgs^ e) { bool result =
(bool)e->Result;
MessageBox::Show("Update" + (result ? "was Successful" : "failed"));
}
Void WorkHandler(// ---bgwExecute>ReportProgress(100, true);
}
D. private: Void StartBackgroundProcess() { bgwExecute->DoWork = gcnew
DoWorkEventHandler(this, &SolutionD::WorkHandler);
bgwExecute>RunWorkerCompleted+=gcnew
RunWorkerCompletedEventHandler(this, &Form1::CompletedHandler);

```

```

bgwExecute>RunWorkerAsync();
}
Void CompletedHandler(Object^ sender, RunWorkerCompletedEventArgs^ e) {bool result =
(bool)e->Result;
MessageBox::Show("Update " + (result ? "was successful" : "Failed"));
}
Void WorkHandler(Object^ sender, DoWorkEventArgs^e) {// - - -
bgwExecute>ReportProgress(100, true);
}

```

Answer: A

Question: 125

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 for each (DataRow ^row in dt->Rows) {
02 for each (DataColumn ^col in dt->Columns) {
03
04 Trace::WriteLine(str);
05 }
06 }

```

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 03?

- A. String ^str = String::Format("Column was {0} is now {1}", row[col], row[col], DataRowVersion::Current];
- B. String ^str = String::Format("Column was {0} is now {1}", row[col], DataRowVersion:: Default], row[col]);

C. String ^str = String::Format("Column was {0} is now {1}", row[col], row[col, DataRowVersion::Proposed]);
D. String ^str = String::Format("Column was {0} is now {1}", row[col, DataRowVersion::Original], row [col]);

Answer: D

Question: 126

A Windows Forms application contains the following code segment.

```
String ^SQL = "SELECT OrderID, ProductID, UnitPrice, Quantity FROM
[Order details]";
SqlDataAdapter^da = gcnew SqlDataAdapter(SQL, connStr);
DataTable ^dt = gcnew 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. DataColumn ^col = gcnew DataColumn("ItemSubtotal");
col->DataType = System::Decimal::typeid; col->Expression "UnitPrice * Quantity"; dt->Columns->Add(col);
B. dt->Compute("UnitPrice * Quantity", "ItemSubtotal");
C. DataColumn ^colgcnew DataColumn("ItemSubtotal"); col DataType = System::Decimal::typeid;
dt Columns->Add(col);
dt Compute("UnitPrice * Quantity", "Item Subtotal");
D. DataColumn ^col = gcnew DataColumn("ItemSubtotal");
col->DataType = System::Decimal::typeid;
col DefaultValue = "UnitPrice * Quantity";
dt->Columns->Add(col);

Answer: A

Question: 127

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. TransactionScope ^ts = gcnew TransactionScope();
try { UpdateOrder();
UpdateAccount();
ts->Complete();
}
finally {delete ts;
}
B. TransactionScope ^ts1 = gcnew TransactionScope();
try UpdateAccount();
TransactionScope ^ts2 = gcnew
TransactionScope(TransactionScopeOption::RequiresNew);
try { UpdateAccount();
ts2 Complete();
} finally { delete ts2;

```

} ts1 Complete();
} finally { delete ts1;
}
C. TransactionScope ^ts = gcnew
TransactionScope(TransactionScopeOption: :RequiresNew);
try UpdateOrder();
ts->Complete();
} finally { delete ts;
} ts = gcnew TransactionScope(TransactionScopeOption: :Required);
try UpdateAccount();
ts->Complete();
} finally { delete ts;
}
D. TransactionScope ^ts = gcnew
TransactionScope(TransactionScopeOption: :RequiresNew);
try { UpdateOrder();

} finally { delete ts;
} TransactionScope ^ts = gcnew TransactionScope(TransactionScopeOption: :Required);
try UpdateAccount();
ts->Complete();
}finally { delete ts;
}

```

Answer: A

Question: 128

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. `this->DataBindings->Add("chkIsManager.Checked", ds, "Users.IsManager");`

Answer: A

Question: 129

You are customizing a Windows Form. When the user clicks any button, you want the application to log information about the users actions by calling a method with the following signature.

public:

`System::Void ctl_Click(Object ^sender, EventArgs ^e)`

You want the form to invoke this method when any Button control is clicked and only when a Button control is clicked. You need to modify the form to invoke this method without interfering with the existing operations of the application. What should you do?

- A. Add the following code to the form initialization.`for each (Control ^ctl in this->Controls) { if (dynamic_cast< Button ^>(ctl) != nullptr){ ctl->Click += gcnew EventHandler(this, &Form1::ctl_Click); }}`
- B. Add the following code to the form initialization.`this->Click += gcnew EventHandler(this, &Form1::ctl_Click);`
- C. Use the Properties dialog box to set the Click event for each Button control on the form to the `ctl_Click` method.
- D. Use the Properties dialog box to set the Click event of the form to the `ctl_Click` method.

Answer: A

Question: 130

You are creating a Windows Forms application. You add an ErrorProvider component named `erpErrors` and a DateTimePicker control named `ntpStartDate` to the application. The application also contains other controls. You need to configure the application to display an error notification icon next to `ntpStartDate` 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 `ntpStartDate`, create an event handler named `VerifyStartDate`.
- B. For the Validated event of `ntpStartDate`, create an event handler named `VerifyStartDate`.
- C. In the Properties Window for `ntpStartDate`, set the value of Error on `erpErrors` to Date out of range.
- D. In `VerifyStartDate`, call `erpErrors->SetError(ntpStartDate, "Date out of range")` if the value of `ntpStartDate->Value` is greater than today's date.
- E. In `VerifyStartDate`, call `erpErrors->SetError(ntpStartDate, "")` if the value of `ntpStartDate->Value` is greater than today's date.

Answer: A,E

Question: 131

You are creating a custom control that displays an image in the background. You notice that when the control is resized, the background image flickers while the control is repeatedly repainted. You need to eliminate the background image flicker. Which three code segments should you use? (Each correct answer presents part of the solution. Choose three.)

- A. `this->SetStyle(ControlStyles::OptimizedDoubleBuffer, true);`
- B. `this->SetStyle(ControlStyles::AllPaintInWmPaint,true);`
- C. `this->SetStyle(ControlStyles::UserPaint, true);`
- D. `this->SetStyle(ControlStyles::ResixeRedraw, true);`
- E. `this->SetStyle(ControlStyles::Opaque, true);`

Answer: A,C,D

Question: 132

You are creating a custom Windows Forms control. On the background of the control, an ellipse completely filled with a colored gradient is drawn. The bounds for the ellipse are equal to the bounds for the control. The control must correctly repaint itself in all situations. You need to include the drawing of the ellipse in the `OnPaint` event handler for the custom control. Which code segment should you use?

- A. `Brush ^linearGradientBrush = gcnew LinearGradientBrush(e->ClipRectangle, startGradient, endGradient, 45);`
`e->Graphics->FillEllipse(linearGradientBrush, e->ClipRectangle);`
- B. `Brush ^linearGradientBrush = gcnew LinearGradientBrush( Point(this->Left, this->Top), Point(this->Right, this->Bottom), startGradient, endGradient);`
`e->Graphics->FillEllipse(linearGradientBrush, e->ClipRectangle);`
- C. `Brush ^linearGradientBrush = gcnew LinearGradientBrush( Rectangle(this->Left, this->Top, this->Wight, this->Height), startGradient, endGradient, 45 true);`
`e->Graphics->FillEllipse(linearGradientBrush, this->Left, this->Top, this->Width, this->Height`
- D. `Brush ^linearGradientBrush = gcnew LinearGradientBrush (this->ClientRectanagle, startGradient, endGradient45);`

```
e->Graphics->FillEllipse(linearGradientBrush, this->ClientRectangle);
```

Answer: D

Question: 133

You are creating a Windows Forms application that prints reports. The application uses the PrintDocument control to print the report and the PrintPreviewDialog control to preview reports as shown in the following code segment.

```
try {  
    pd->PrintPage +=  
}  
finally {  
}
```

When a report is printed by using the Print method on the PrintDocument class, the output is correct. When the report is previewed by using the Print Preview dialog box, the output is correct. However, when the report is printed by using the Print button in the Print Preview dialog box, a single blank page is produced. You need to ensure that the output is correct when the Print button in the Print Preview dialog box is used. What should you do?

- A. In the event handler for the ppd_Click event, set the position of the streamToPrint->BaseStream property to 0.
- B. In the event handler for the ppd_PrintPreviewControl_Click event, set the position of the streamToPrint->BaseStream property to 0.
- C. In the event handler for the pd_PrintPage event, set the position of the streamToPrint->BaseStream property to 0.
- D. In the event handler for the pd_BeginPrint event, set the position of the streamToPrint->BaseStream property to 0.

Answer: D

Question: 134

A Windows Forms application includes resources that are localized for several languages. You want to view your application when it uses resources that are localized for the French language as spoken in France. This culture is denoted by the culture name fr-FR. You need to test the application by using the resources contained in the satellite assembly. You must not modify the regional settings of your computer. What should you do?

- A. Set the following assembly attribute: [assembly: NeutralResourcesLanguage("fr-FR")];
- B. Add the following code to the application initialization: RegionInfo^ ri = gcnew RegionInfo("FR"); Thread::CurrentThread Name = ri NativeName;
- C. Add the following code to the application Initialization: Thread::CurrentThread CurrentUICulture = gcnew CultureInfo("fr-FR");
- D. Add the following code to the applicationSettings section of the application configuration file: <setting name="CultureInfo" serializeAs="String"> <value>"fr-FR"</value></setting>

Answer: C

Question: 135

You create a Web Form that allows users to create a new account. You add a CreateUserWizard control by using the following code segment.

```
<asp:CreateUserWizard id="Wizard1" runat="server"/>
```

You need to ensure that the wizard automatically sends an e-mail message to users when they finish creating their accounts. You add a valid <smtp> element to the Web.config file. Which code segment should you add to the Page_Load event?

- A. Wizard1.RequireEmail = True
- B. Wizard1.Email = "user@address.com"
- C. Wizard1.MailDefinition.From = "registration@mysite.com"
- D. Smtplib.SmtplibServer = "mail.contoso.com"

Answer: C

Question: 136

You are developing a Web application. Your code restricts access to some pages based on the users credentials. You need to configure IIS to supply the user's Windows credentials to your Web application. These credentials must be encrypted. What should you do?

- A. Enable Anonymous access. Enable Integrated Windows authentication.
- B. Enable Anonymous access. Enable Basic authentication.
- C. Disable Anonymous access. Enable Integrated Windows authentication.
- D. Disable Anonymous access. Enable Basic authentication.

Answer: C

Question: 137

Your Web site uses custom Themes. Your Web site must support additional Themes based on the user's company name. The company name is set when a user logs on to the Web site. The company's Theme name is stored in a variable named ThemeName. You need to use this variable to dynamically set the Web site's Theme. What should you do?

- A. Add the following code segment to the markup source of each page on the Web site. <%@ Page Theme="ThemeName" ... %>
- B. Add the following code segment to the Load event of each page on the Web site.
Page.Theme = ThemeName
- C. Add the following code segment to the PreInit event of each page on the Web site
Page.Theme = ThemeName
- D. Add the following code segment to the Web site's configuration file. <pages theme="ThemeName" />

Answer: C

Question: 138

You create a master page named Article.master. Article.master serves as the template for articles on your Web site. The master page uses the following page directives.

<%@ Master Language="VB" CodeFile="article.master.vb" Inherits="article" %>

You need to create a content page that uses the master page as a template. In addition, you need to use a single master page for all devices that access the Web site. Which code segment should you use?

- A. <%@ Page Language="VB" Theme="article"%>
- B. <%@ Page Language="VB" MasterPageFile="~/article.master"%>
- C. <%@ Page Language="VB" ie:MasterPageFile="~/article.master"%>
- D. <%@Page Language="VB" all:MasterPageFile="~/article.master"%>

Answer: B

Question: 139

You create a Web site that stores users' active themes in user profile objects. You need to apply users' preferred themes when they log on to the Web site. What should you do?

- A. In the InitComplete event handler, set the Theme property of the Page object based on the user profile.
- B. In the PreLoad event handler, set the Theme property of the Page object based on the user profile.
- C. In the OnLoad event handler, set the Theme property of the Page object based on the user profile.
- D. In the PreInit event handler, set the Theme property of the Page object based on the user profile.

Answer: D

Question: 140

You create Web sites for Company.com. You apply a consistent design to the pages and controls of the Web sites. You need to make style changes to all of the Web sites on the Web server. You want to achieve this goal without having to edit the individual pages on each Web site. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Place a theme in the App_Themes directory under the application root directory.
- B. Place a theme under an ASP.NETClientFiles folder under the ASP.NET installation directory.
- C. Assign a theme by setting the <%@ Page Theme="..." %> directive to the name of the application theme.
- D. Assign a theme by specifying the <pages theme="..." /> section in the Web.config file.

Answer: B,D

Question: 141

You create an application. The application processes hundreds of XML documents per minute. The XML documents are validated against inline schemas. You need to load XML documents from the file system and read them as quickly as possible. XML comments must be ignored while reading the XML documents. What should you do?

- A. Create an instance of the XmlReader class by using the XmlReader Create method with an instance of the XmlReaderSettings class.
- B. Create an instance of the XmlReader class with an instance of the XmlTextReader class.
- C. Create an instance of the XmlDocument class and specify a location for the application schema.
- D. Create an instance of the XmlReader class with an instance of the XmlNodeReader class.

Answer: A

Question: 142

You are transferring records from one database to another. You need to decide whether you can use the SqlBulkCopy class to transfer the records. What should you do?

- A. Ensure that the source database is Microsoft SQL Server.
- B. Ensure that the destination database is Microsoft SQL Server.
- C. Ensure that the column names in the source table match the column names in the destination table.
- D. Ensure that the bulk copy program (bcp) utility is installed on the destination server.

Answer: B

Question: 143

You are creating a Web Form. The Web Form allows users to rename or delete products in a list.

You create a DataTable named dtProducts that is bound to a GridView.

DataTable has the following four rows.

```
dtProducts.Rows(0)("ProductName") = "Soap"
```

```
dtProducts.Rows(1)("ProductName") = "Book"
```

```
dtProducts.Rows(2)("ProductName") = "Computer"
```

```
dtProducts.Rows(3)("ProductName") = "Spoon"
```

```
dtProducts.AcceptChanges()
```

The user utilizes a Web Form to delete the first product. You need to set the RowStateFilter property of the DataTables DefaultView so that only products that have not been deleted are shown. To which value should you set the DataTables DefaultView.RowStateFilter?

- A. DataRowState.ModifiedOriginal
- B. DataRowState.ModifiedCurrent
- C. DataRowState.CurrentRows
- D. DataRowState.Added

Answer: C

Question: 144

You create a Web Form that contains a TreeView control. The TreeView control allows users to navigate within the Marketing section of your Web site. The following XML defines the site map for your site.

```
<siteMapNode url="~/default.aspx" title="Home" description="Site Home Page">
```

```
<siteMapNode url="Sales.aspx" title="Sales" description="Sales Home">
```

```
<siteMapNode url="SalesWest.aspx" title="West Region" description="Sales for the West Region" />
```

```
<siteMapNode url="SalesEast.aspx" title="East Region" description="Sales for the East Region" />
```

```
</siteMapNode>
```

```
<siteMapNode url="Marketing.aspx" title="Marketing" description="Marketing Home">
```

```
<siteMapNode url="MarketNational.aspx" title="National Campaign" description="National marketing campaign" />
```

```
<siteMapNode url="MarketMidwest.aspx" title="Midwest Campaign" description="Midwest region marketing campaign" />
```

```
<siteMapNode url="MarketSouth.aspx" title="South Campaign" description="South region marketing campaign" />
```

```
</siteMapNode></siteMapNode>
```

You need to bind the TreeView control to the site map data so that users can navigate only within the Marketing section. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Add a SiteMapDataSource control to the Web Form and bind the TreeView control to it.
- B. Add a SiteMapPath control to the Web Form and bind the TreeView control to it.
- C. Embed the site map XML within the SiteMap node of a Web.sitemap file.
- D. Embed the site map XML within the AppSettings node of a Web.config file.
- E. Set the StartingNodeUrl property of the SiteMapDataSource control to ~/Marketing.aspx.
- F. Set the SkipLinkText property of the SiteMapPath control to Sales.

Answer: A,C,E

Question: 145

You are developing an application that connects to a Microsoft SQL Server database using the SqlConnection object. Your connection objects are being pooled. As the pool fills up, connection requests are queued. Some connection requests are rejected. You need to ensure that the application releases connections back to the pool as soon as possible. Also, you need to decrease the likelihood that connection requests will be

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

- A. Ensure that the Close method is called on each connection object after it has finished executing.
- B. Ensure that each connection object is left open after it has finished executing.
- C. Increase the Max Pool Size value inside the connection string.
- D. Increase the Min Pool Size value inside the connection string.
- E. Increase the Connection Lifetime value inside the connection string.
- F. Increase the value of the ConnectionTimeout property of the SqlConnection object.

Answer: A,C,F

Question: 146

You are creating a custom user control. The custom user control will be used on 10 Web Forms for an ASP.NET Web site that allows users to register and log on to a personalized experience. The custom user control uses two TextBox controls and two Button controls. You need to ensure that the controls are visible only when users are not logged on to the Web site. You also need to minimize the amount of effort in development and maintenance for the Web site. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add the OnClick event handler for the Login button to the code used in the custom user control.
- B. Add the OnClick event handler for the Login button to the code used in the Web Form where the control is added.
- C. In the Page_Load method of the Web Form, add a code segment to set the visibility of the TextBox and Button controls where the control is added.
- D. In the Page_Load method of the custom user control, add a code segment to set the visibility of the TextBox and Button controls.

Answer: A,D

Question: 147

You develop a Web control. The Web control consists of labels and associated text boxes. You need to ensure that the Web control has both toolbox and visual designer support. What should you do?

- A. Add a Web Control Library project to your solution. Define a class that inherits from CompositeControl.
- B. Add a Windows Control Library project to your solution. Define a class that inherits from UserControl.
- C. Add a Web User Control to your project. Define a class that inherits from UserControl.
- D. Add a Mobile Web User Control to your project. Define a class that inherits from MobileUserControl.

Answer: A

Question: 148

You create a control named ContosoUI for a Web application. You need to add the control to the toolbox of Microsoft Visual Studio .NET. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create the ContosoUI control as a Web Control Library.
- B. Create the ContosoUI control as a Web user control.
- C. Within the Visual Studio .NET toolbox, browse to and select ContosoUI.ascx.
- D. Within the Visual Studio .NET toolbox, browse to and select ContosoUI.dll.

Answer: A,D

Question: 149

You create a Web Form with several UI elements on it. During a code review, you realize that some of the UI elements can be grouped into user controls. You need to create a Web control to group the UI elements that do not require server-side processing. Doing so will enable you to programmatically add or remove the UI elements from the page. You want to maintain the UI elements' style properties. What should you do?

- A. Use System.Web.UI.TemplateControl to group the UI elements.
- B. Use System.Web.UI.HtmlControls.HtmlControl to group the UI elements.
- C. Use System.Web.UI.LiteralControl to group the UI elements.
- D. Use System.Web.UI.WebControls.Literal to group the UI elements.

Answer: C

Question: 150

You are developing a Web application to display products. Products are displayed on different pages on your Web site. You want to create a user control to manage the display of products. You need a default visual implementation of the UI of the user control. In addition, you need to provide developers with the flexibility to change the layout and controls of the UI. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Apply the TemplateContainerAttribute to a property of type ITemplate. Pass the type of the template's naming container as the argument to the attribute.
- B. Apply the TemplateContainerAttribute to the user control's class declaration.
- C. Implement a property of type INamingContainer in the user control's code-behind class.
- D. Implement a property of type ITemplate in the user control's code-behind class.
- E. Define a new class that inherits from the ITemplate interface. Implement the InstantiateIn method of the ITemplate interface.

Answer: A,D,E

Question: 151

You create a Web Form that contains connected Web Parts. You write the following declaration in your Web Form.

```
<asp:WebPartConnection ID="WebPartConnection1"  
ProviderID="customerPart"  
ConsumerID="ordersPart" />
```

You need to ensure that your Web Part connection is valid. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Include a data source identified as "WebPartConnection1" on the Web Form.
- B. Include a Web Part identified as "customerPart" on the Web Form.
- C. Include a Web Part identified as "ordersPart" on the Web Form.
- D. Ensure that you declare an interface named "IOrdersPart".
- E. Ensure that you declare an interface named "ICustomerPart".
- F. Ensure that each Web Part declares either a GetInterface or ProvideInterface method.

Answer: B,C

Question: 152

You create a Web site. You add an EditorZone control to the home page on the Web site. You

need to enable users to customize the size and location of the Web Parts on their home pages. Which two controls should you add to the EditorZone control? (Each correct answer presents part of the solution. Choose two.)

- A. BehaviorEditorPart
- B. AppearanceEditorPart
- C. PropertyGridEditorPart
- D. LayoutEditorPart

Answer: B,D

Question: 153

You create a server control that inherits from WebControl. You need to enable the server control to emit markup for a new kind of mobile device. You must not alter the code in the server controls. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

- A. Create a class that inherits HtmlTextWriter and that can emit the new markup.
- B. Create a class that inherits StreamWriter and that can emit the new markup.
- C. Reference the class in the <capabilities> element of the new device's browser definition file.
- D. Reference the class in the <controlAdapters> element of the new device's browser definition file.

Answer: A,D

Question: 154

You create a Web Form that contains a text box named txtDate. You want the text box to allow users to enter any valid date. You need to use an ASP.NET validation control to ensure that only valid date values are submitted to the server. What should you do?

- A. Add a CompareValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its Operator property to DataTypeCheck.
- B. Add a RangeValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its MinimumValue property to 01/01/1900 and its MaximumValue to the current date.
- C. Add a CustomValidator control to the Web Form. Set its ControlToValidate property to txtDate. Write a function in the partial class that verifies the values as dates and returns a Boolean variable. Set the CustomValidators ClientValidationFunction to the name of your function.
- D. Add a RegularExpressionValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set the ValidationExpression property to ensure that the users input follows the format of nn-nn-nnnn, where n represents a number from 0 through 9.

Answer: A

Question: 155

You create a Web Form that contains a button named btnCancel that enables users to exit the page. When users click this button, validation must not occur. During testing you learn that clicking the Cancel button does not enable users to exit the page. You need to ensure that users can always exit the page. What should you do?

- A. Set the Enabled property of the validation controls on the Web Form to False.
- B. Set the CausesValidation property of the btnCancel button to False.
- C. Set the CausesValidation property of the btnCancel button to True.
- D. Set the Visible property of the validation controls on the Web Form to False.

Answer: B

Question: 156

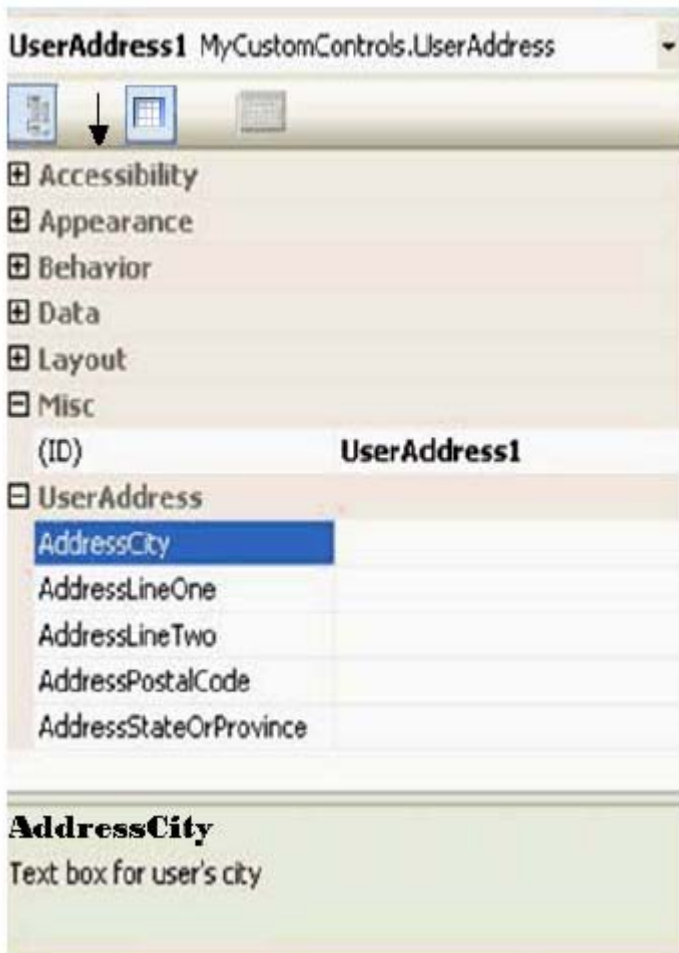
You create a server control that inherits from WebControl. You need to enable the server control to emit markup for a new kind of mobile device. You must not alter the code in the server controls. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

- A. Create a class that inherits HtmlTextWriter and that can emit the new markup.
- B. Create a class that inherits StreamWriter and that can emit the new markup.
- C. Reference the class in the <capabilities> element of the new device's browser definition file.
- D. Reference the class in the <controlAdapters> element of the new device's browser definition file.

Answer: A,D

Question: 157

Exhibit:



You are creating a composite control for capturing user address information in a Web application. You define a number of properties that the user can set at design time. You need to group these properties in the Properties dialog box. In addition, you need to ensure that when users click on a particular property, they receive a short explanation of that property. The properties are shown in the exhibit.

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

- A. Attach the Category attribute class to the controls class definition. Set its value to UserAddress. Mark the class as public.
- B. Attach the Browsable attribute class to each property in the group. Set its value to True. Mark the property as private.
- C. Attach the Category attribute class to each property in the group. Set its value to UserAddress. Mark the property as public.
- D. Attach the Description attribute class to each property in the group. Set each value to a description of the given property.
- E. Attach the DefaultValue attribute class to each property in the group. Set each value to a description of the given property.

Answer: C,D

Question: 158

You create a control named ContosoUI for a Web application. You need to add the control to the toolbox of Microsoft Visual Studio .NET. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create the ContosoUI control as a Web Control Library.
- B. Create the ContosoUI control as a Web user control.
- C. Within the Visual Studio .NET toolbox, browse to and select ContosoUI.ascx.
- D. Within the Visual Studio .NET toolbox, browse to and select ContosoUI.dll.

Answer: A,D

Question: 159

You develop a Web control. The Web control consists of labels and associated text boxes. You need to ensure that the Web control has both toolbox and visual designer support. What should you do?

- A. Add a Web Control Library project to your solution. Define a class that inherits from CompositeControl.
- B. Add a Windows Control Library project to your solution. Define a class that inherits from UserControl.
- C. Add a Web User Control to your project. Define a class that inherits from UserControl.
- D. Add a Mobile Web User Control to your project. Define a class that inherits from MobileUserControl.

Answer: A

Question: 160

You are developing a Web application to display products. Products are displayed on different pages on your Web site. You want to create a user control to manage the display of products. You need a default visual implementation of the UI of the user control. In addition, you need to provide developers with the flexibility to change the layout and controls of the UI. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Apply the TemplateContainerAttribute to a property of type ITemplate. Pass the type of the template's naming container as the argument to the attribute.
- B. Apply the TemplateContainerAttribute to the user control's class declaration.
- C. Implement a property of type INamingContainer in the user control's code-behind class.
- D. Implement a property of type ITemplate in the user control's code-behind class.
- E. Define a new class that inherits from the ITemplate interface. Implement the InstantiateIn method of the ITemplate interface.

Answer: A,D,E

Question: 161

You create a Web Form with several UI elements on it. During a code review, you realize that some of the UI elements can be grouped into user controls. You need to create a Web control to group the UI elements that do not require server-side processing. Doing so will enable you to programmatically add or remove the UI elements from the page. You want to maintain the UI elements' style properties. What should you do?

- A. Use System.Web.UI.TemplateControl to group the UI elements.
- B. Use System.Web.UI.HtmlControls.HtmlControl to group the UI elements.
- C. Use System.Web.UI.LiteralControl to group the UI elements.
- D. Use System.Web.UI.WebControls.Literal to group the UI elements.

Answer: C

Question: 162

You are creating a custom user control. The custom user control will be used on 10 Web Forms for an ASP.NET Web site that allows users to register and log on to a personalized experience. The custom user control uses two TextBox controls and two Button controls. You need to ensure that the controls are visible only when users are not logged on to the Web site. You also need to minimize the amount of effort in development and maintenance for the Web site. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add the OnClick event handler for the Login button to the code used in the custom user control.
- B. Add the OnClick event handler for the Login button to the code used in the Web Form where the control is added.
- C. In the Page_Load method of the Web Form, add a code segment to set the visibility of the TextBox and Button controls where the control is added.
- D. In the Page_Load method of the custom user control, add a code segment to set the visibility of the TextBox and Button controls.

Answer: A,D

Question: 163

You create a Web Form. The Web Form allows users to recover their passwords. You add a PasswordRecovery server control by using the following code segment.

```
<asp:PasswordRecovery runat="server"/>
```

You need to ensure that the server control generates a new password and sends it by e-mail to the users e?mail address. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create a valid <smtp> definition in the Web.config file.
- B. Set the passwordFormat attribute of the configured membership provider to Encrypted.
- C. Ensure that the enablePasswordRetrieval attribute of the configured membership provider is set to False.
- D. Ensure that the enablePasswordRetrieval attribute of the configured membership provider is set to True.

Answer: A,C

Question: 164

You create a Web site with membership and personalization enabled. You must use an existing CRM database for storing the membership information. You need to implement

the Membership Provider. What should you do?

- A. Modify the connection string in the Web.config file to connect to the CRM database.
- B. Add new a SqlMembershipProvider to the Web.config file.
- C. Create a custom Membership Provider inheriting from MembershipProvider.
- D. Create a custom MembershipUser inheriting from MembershipUser.

Answer: C

Question: 165

You create an intranet Web site for management of project documents. You need to enable all users to browse documents on the site. Only members of the administrators group must be able to upload files. Which code segment of the Web.config file should you use?

- A. `<allow verbs="GET" users="*" /><deny verbs="POST" users="*" /><allow verbs="POST" roles="Administrators" />`
- B. `<allow roles="Administrators" /><deny users="*" />`
- C. `<allow users="Administrators" /><allow users="*" />`
- D. `<allow verbs="POST" roles="Administrators" /><deny verbs="POST" users="*" /><allow verbs="GET" users="*" />`

Answer: D

Question: 166

You deploy Company.coms Internet Web site. You need to deny anonymous access to the Web site, allowing only authenticated users. Which code segment should you use?

- A. `<authorization> <allow users="?" /> </authorization>`
- B. `<authorization> <deny users="?" /> </authorization>`
- C. `<authorization> <deny users="*" /> </authorization>`
- D. `<authorization> <allow users="*" /> </authorization>`

Answer: B

Question: 167

You create a Web site. At the top of every page on the site is the following code segment.`<%@ OutputCache Duration="60" VaryByParam="none" %>` You need the pages to display the current user's name at the top without turning off the output cache. Which control should you use?

- A. `AccessDataSource`
- B. `Localize`
- C. `ImportCatalogPart`
- D. `Substitution`

Answer: D

Question: 168

You copy a Web site from a development site to a staging site. You do not have the Web site in a source control application. Another developer begins to fix bugs on the staging site while the development team adds features on the development site. You need to synchronize the development site and the staging site and copy the latest version of each file to both locations. What should you do?

- A. Use the Copy Web tool.
- B. Create a Web Setup project.
- C. Use the Publish Web tool.

D. Use the command line to XCOPY the files.

Answer: A

Question: 169

You create a Web site for a customer. You need to deploy the Web site to the customers server without any of the source files for the Web site. You do not want the customer to be able to update any of the static pages on the Web site. Which tool should you use?

- A. aspnet_compiler.exe
- B. InstallUtil.exe
- C. CSC.exe
- D. aspnet_wp.exe

Answer: A

Question: 170

Every morning, you inspect Company.com's development and staging servers. You do this to ensure that the servers have the same versions of all files in your Web application. For security reasons, you can only access the staging server through FTP. You need to synchronize files from the staging server so that the staging server matches the development server. You want to achieve this goal by using the minimum amount of administrative effort. Which tool should you use?

- A. FTP
- B. XCOPY
- C. the Publish Web tool
- D. the Copy Web tool

Answer: D

Question: 171

You create a large, n-tier Web application that has a custom event tracking system. You need to create a custom event type that enables your event tracking system to record all relevant event details for all types of events. The events must be stored in Microsoft SQL Server. From which base type should your custom event type inherit?

- A. IWebEventCustomEvaluator
- B. WebEventProvider
- C. WebBaseEvent
- D. WebAuditEvent

Answer: C

Question: 172

Your team creates a Web site. The Web site needs to be deployed to a staging server for performance testing. You plan to make a number of performance enhancements and then retest. You need to compile and copy the Web site to the staging server. What should you do?

- A. Write a batch file that uses aspnet_compiler.exe.
- B. Write a batch file that uses InstallUtil.exe.
- C. Write a batch file that uses Csc.exe.
- D. Write a batch file that uses aspnet_wp.exe.

Answer: A

Question: 173

You create a Web application. You need to turn on Tracing for a page that is not performing well. You must store the trace information in a database for reporting and trending. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add a `TraceContextEventHandler` to the `Trace.TraceFinished` event to add the trace records into the database.
- B. Add a `system.diagnostics` section to the `Web.config` file. Then add a listener to the new section.
- C. Use the `System.Diagnostics.Trace` object to connect to a database. Then insert the trace records.
- D. In the `Page_Load` for the page, place the `Trace.Write` call into a SQL INSERT statement.

Answer: A,B

Question: 174

You create a Web Form. The Web Form allows users to recover their passwords. You add a `PasswordRecovery` server control by using the following code segment.

```
<asp:PasswordRecovery runat="server"/>
```

You need to ensure that the server control generates a new password and sends it by e-mail to the users e-mail address. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Create a valid `<smtp>` definition in the `Web.config` file.
- B. Set the `passwordFormat` attribute of the configured membership provider to `Encrypted`.
- C. Ensure that the `enablePasswordRetrieval` attribute of the configured membership provider is set to `False`.
- D. Ensure that the `enablePasswordRetrieval` attribute of the configured membership provider is set to `True`.

Answer: A,C

Question: 175

You are developing a Web application. Your code restricts access to some pages based on the users credentials. You need to configure IIS to supply the user's Windows credentials to your Web application. These credentials must be encrypted. What should you do?

- A. Enable Anonymous access. Enable Integrated Windows authentication.
- B. Enable Anonymous access. Enable Basic authentication.
- C. Disable Anonymous access. Enable Integrated Windows authentication.
- D. Disable Anonymous access. Enable Basic authentication.

Answer: C

Question: 176

You create an intranet Web site for management of project documents. You need to enable all users to browse documents on the site. Only members of the administrators group must be able to upload files. Which code segment of the `Web.config` file should you use?

- A. `<allow verbs="GET" users="*" /><deny verbs="POST" users="*" /><allow verbs="POST" roles="Administrators" />`
- B. `<allow roles="Administrators" /><deny users="*" />`
- C. `<allow users="Administrators" /><allow users="*" />`

D. <allow verbs ="POST" roles="Administrators" /><deny verbs="POST" users="*" /><allow verbs="GET" users="*" />

Answer: D

Question: 177

You deploy Company.com's Internet Web site. You need to deny anonymous access to the Web site, allowing only authenticated users. Which code segment should you use?

- A. <authorization> <allow users="?" /> </authorization>
- B. <authorization> <deny users="?" /> </authorization>
- C. <authorization> <deny users="*" /> </authorization>
- D. <authorization> <allow users="*" /> </authorization>

Answer: B

Question: 178

You create a Web site with membership and personalization enabled. You must use an existing CRM database for storing the membership information. You need to implement the Membership Provider. What should you do?

- A. Modify the connection string in the Web.config file to connect to the CRM database.
- B. Add new a SqlMembershipProvider to the Web.config file.
- C. Create a custom Membership Provider inheriting from MembershipProvider.
- D. Create a custom MembershipUser inheriting from MembershipUser.

Answer: C

Question: 179

You create a Web site that is for members only. The behavior of the Web site changes according to the role of the user. The Web site uses the ASP.NET Membership control for creation of user accounts. You need to find out whether a user is a member of a particular role. What should you do?

- A. Pass the user names and passwords to Membership.ValidateUser.
- B. Pass the role names to User.IsInRole.
- C. Pass the role names to Roles.RoleExists.
- D. Pass the user names to Membership.GetUser.

Answer: B

Question: 180

You are developing a Web application. The Web application uses the following code segment to connect to a database.conn.

```
ConnectinStrign = "Server=(local); "&"Initial Catalog=Company;  
Intergrated sercutity=SSPI; "
```

You create logins in Microsoft SQL Server for each user of the Web application. When you run the Web application, you receive the following error message. "Login failed for user 'COMPUTERNAME\ASPNET'." You need to resolve this error. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. In IIS, deny anonymous access.

- B. In the Web.config file, enable impersonation.
- C. In IIS, allow anonymous access.
- D. In the Web.config file, disable impersonation.
- E. In the Web.config file, set the authentication mode to Windows.

Answer: A,B

Question: 181

You are using the ASP.NET membership APIs to manage user accounts for a Web site. The Web.config file contains the definition for the membership provider. After modifying the Web.config file to enable password recovery, you create a PasswordReset.aspx file. You need to enable users to reset their passwords online. The new passwords must be sent to them by e-mail after they have logged on through the Login.aspx page. In addition, users must be required to answer their secret questions before resetting their passwords. Which code logic should you use?

- A. Add a PasswordRecovery element to the PasswordReset.aspx file and configure it.
- B. Modify the Page_Load to set the Membership.EnablePasswordReset to True in the PasswordReset.aspx file.
- C. Add a ChangePassword element to the PasswordReset.aspx file and configure it.
- D. Modify the Login.aspx form to include a Required Field validator on the secret question answer text box. Then redirect users to the PasswordReset.aspx file.

Answer: A

Question: 182

You create a Web site that you must copy from a development server to a testing server, along with all source files. You do not have terminal access to the testing server. You need to create the virtual directory. Then you must copy the Web site to the virtual directory on the testing server without precompiling the site. What should you do?

- A. Use the Publish Web tool.
- B. Use the Copy Web tool.
- C. Use the command line to XCOPY the files.
- D. Create a Web Setup project.

Answer: B

Question: 183

Your team creates a Web site. The Web site needs to be deployed to a staging server for performance testing. You plan to make a number of performance enhancements and then retest. You need to compile and copy the Web site to the staging server. What should you do?

- A. Write a batch file that uses aspnet_compiler.exe.
- B. Write a batch file that uses InstallUtil.exe.
- C. Write a batch file that uses Csc.exe.
- D. Write a batch file that uses aspnet_wp.exe.

Answer: A

Question: 184

You create a large, n-tier Web application that has a custom event tracking system. You need to create a custom event type that enables your event tracking system to record all relevant event

details for all types of events. The events must be stored in Microsoft SQL Server. From which base type should your custom event type inherit?

- A. IWebEventCustomEvaluator
- B. WebEventProvider
- C. WebBaseEvent
- D. WebAuditEvent

Answer: C

Question: 185

You create a Web application. The Web application enables users to change fields in their personal profiles. Some of the changes are not persisting in the database. You need to raise a custom event to track each change that is made to a user profile so that you can locate the error. Which event should you use?

- A. WebAuditEvent
- B. WebEventManager
- C. WebBaseEvent
- D. WebRequestEvent

Answer: C

Question: 186

You are deploying a Web site to a server managed by a hosting company. The only access you have to the server is through FTP. You need to precompile and deploy the Web site without its source files. What should you do?

- A. Use the Copy Web tool.
- B. Use the Publish Web tool.
- C. Use XCOPY.
- D. Use the Web Setup project Installer.

Answer: B

Question: 187

You are working with a team of developers on a Web site. You copy the Web site from the staging server to work on it locally. While making changes, you create new C# source code files and delete old ones. You need to ensure that your changes propagate to the staging server without affecting any files that you have not modified. Which tool should you use?

- A. XCOPY
- B. the Copy Web tool
- C. the Publish Web tool
- D. a Web Setup project

Answer: B

Question: 188

You create a Web site. At the top of every page on the site is the following code segment.<%@ OutputCache Duration="60" VaryByParam="none" %>You need the pages to display the current user's name at the top without turning off the output cache. Which control should you use?

- A. AccessDataSource
- B. Localize

- C. ImportCatalogPart
- D. Substitution

Answer: D

Question: 189

You copy a Web site from a development site to a staging site. You do not have the Web site in a source control application. Another developer begins to fix bugs on the staging site while the development team adds features on the development site. You need to synchronize the development site and the staging site and copy the latest version of each file to both locations. What should you do?

- A. Use the Copy Web tool.
- B. Create a Web Setup project.
- C. Use the Publish Web tool.
- D. Use the command line to XCOPY the files.

Answer: A

Question: 190

You create a Web application. You need to turn on Tracing for a page that is not performing well. You must store the trace information in a database for reporting and trending. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add a TraceContextEventHandler to the Trace.TraceFinished event to add the trace records into the database.
- B. Add a system.diagnostics section to the Web.config file. Then add a listener to the new section.
- C. Use the System.Diagnostics.Trace object to connect to a database. Then insert the trace records.
- D. In the Page_Load for the page, place the Trace.Write call into a SQL INSERT statement.

Answer: A,B

Question: 191

Your team creates a Web site. The Web site needs to be deployed to a staging server for performance testing. You plan to make a number of performance enhancements and then retest. You need to compile and copy the Web site to the staging server. What should you do?

- A. Write a batch file that uses aspnet_compiler.exe.
- B. Write a batch file that uses InstallUtil.exe.
- C. Write a batch file that uses Csc.exe.
- D. Write a batch file that uses aspnet_wp.exe.

Answer: A

Question: 192

You create a large, n-tier Web application that has a custom event tracking system. You need to create a custom event type that enables your event tracking system to record all relevant event details for all types of events. The events must be stored in Microsoft SQL Server. From which base type should your custom event type inherit?

- A. IWebEventCustomEvaluator
- B. WebEventProvider
- C. WebBaseEvent
- D. WebAuditEvent

Answer: C

Question: 193

Every morning, you inspect Company.com's development and staging servers. You do this to ensure that the servers have the same versions of all files in your Web application. For security reasons, you can only access the staging server through FTP. You need to synchronize files from the staging server so that the staging server matches the development server. You want to achieve this goal by using the minimum amount of administrative effort. Which tool should you use?

- A. FTP
- B. XCOPY
- C. the Publish Web tool
- D. the Copy Web tool

Answer: D

Question: 194

You create a Web site for a customer. You need to deploy the Web site to the customers server without any of the source files for the Web site. You do not want the customer to be able to update any of the static pages on the Web site. Which tool should you use?

- A. aspnet_compiler.exe
- B. InstallUtil.exe
- C. CSC.exe
- D. aspnet_wp.exe

Answer: A

Question: 195

You create Web sites for Company.com. You apply a consistent design to the pages and controls of the Web sites. You need to make style changes to all of the Web sites on the Web server. You want to achieve this goal without having to edit the individual pages on each Web site. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Place a theme in the App_Themes directory under the application root directory.
- B. Place a theme under an ASP.NETClientFiles folder under the ASP.NET installation directory.
- C. Assign a theme by setting the <%@ Page Theme="..." %> directive to the name of the application theme.
- D. Assign a theme by specifying the <pages theme="..." /> section in the Web.config file.

Answer: B,D

Question: 196

You create a master page named Article.master. Article.master serves as the template for articles on your Web site. The master page uses the following page directives. <%@ Master Language="C#" Src="~/article.master.cs" Inherits="article" %> You need to create a content page

that uses the master page as a template. In addition, you need to use a single master page for all devices that access the Web site. Which code segment should you use?

- A. <%@ Page Language="C#" Theme="article"%>
- B. <%@ Page Language="C#" MasterPageFile="~/article.master"%>
- C. <%@ Page Language="C#" ie:MasterPageFile="~/article.master"%>
- D. <%@ Page Language="C#" all:MasterPageFile="~/article.master"%>

Answer: B

Question: 197

You create a Web site that stores users' active themes in user profile objects. You need to apply users' preferred themes when they log on to the Web site. What should you do?

- A. In the InitComplete event handler, set the Theme property of the Page object based on the user profile.
- B. In the PreLoad event handler, set the Theme property of the Page object based on the user profile.
- C. In the OnLoad event handler, set the Theme property of the Page object based on the user profile.
- D. In the PreInit event handler, set the Theme property of the Page object based on the user profile.

Answer: D

Question: 198

You create a Web Form that contains connected Web Parts. You write the following declaration in your Web Form.

```
<asp:WebPartConnection ID="WebPartConnection1" ProviderID="customerPart"
ConsumerID="ordersPart" />
```

You need to ensure that your Web Part connection is valid. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Include a data source identified as "WebPartConnection1" on the Web Form.
- B. Include a Web Part identified as "customerPart" on the Web Form.
- C. Include a Web Part identified as "ordersPart" on the Web Form.
- D. Ensure that you declare an interface named "IOrdersPart".
- E. Ensure that you declare an interface named "ICustomerPart".
- F. Ensure that each Web Part declares either a GetInterface or ProvideInterface method.

Answer: B,C

Question: 199

You create a Web site. You add an EditorZone control to the home page on the Web site. You need to enable users to customize the size and location of the Web Parts on their home pages. Which two controls should you add to the EditorZone control? (Each correct answer presents part of the solution. Choose two.)

- A. BehaviorEditorPart
- B. AppearanceEditorPart
- C. PropertyGridEditorPart
- D. LayoutEditorPart

Answer: B,D

Question: 200

You create a Web application to process XML documents. The Web application receives XML document files from several sources, reads them, and stores them in a Microsoft SQL Server database. The Web application parses all incoming data files to ensure that they conform to an XML schema. You need to find all validation errors in the XML document. What should you do?

- A. Load the XML data by using an instance of the XmlDocument class and specify a location for the application schema.
- B. Configure the ValidationEventHandler in the XmlReaderSettings of the XmlReader object.
- C. Read the XML file into a DataSet object and set the EnforceConstraints property to True.
- D. Read the XML file into a DataSet object. Handle the DataSet.MergeFailed event to parse the data that does not conform to the XML schema.

Answer: B

Question: 201

You are creating a Web application that will run on an intranet. The Web application reads comma-delimited text files. The text files reside in a subdirectory below the Web application's root directory. Users must not be able to navigate directly to these files in a Web browser unless they are members of the Accounting role. You need to write an ASP.NET HTTP handler that will use the FileAuthorizationModule class. Which form of authentication should you use?

- A. Anonymous
- B. Certificate
- C. Forms
- D. Microsoft Windows Integrated Security

Answer: D

Question: 202

You create a Web Form. The Web Form allows users to log on to a Web site. You implement the login logic using a Login control named Login1. The membership data for the application is stored in a SQL Express database in the App_Data directory. You need to configure your application so that the membership data is stored in a local Microsoft SQL Server database. You add the following code segment to the Web.config file.

```
<membership defaultProvider="MySqlProvider">
  <providers>
    <add name="MySqlProvider" type="System.Web.Security.SqlMembershipProvider,
      System.Web, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
      connectionStringName="MySqlProviderConnection"/>
  </providers></membership>
```

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

- A. Use Aspnet_regsql.exe to create the Microsoft SQL Server database.
- B. Set Login1's MembershipProvider property to MySqlProviderConnection.
- C. Add the following code segment to the Web.config file. <connectionStrings> <add name="MySqlProviderConnection" connectionString="valid connection string" /></connectionStrings>

D. Add the following code segment to the Web.config file. <appSettings><add

key="MySqlConnection" value="valid connection string" /></appSettings>

E. In the ASP.NET configuration settings within IIS, ensure that Role Management Enabled is selected.

F. Use the Web Site Administration Tool to select AspNetSqlMembershipProvider as the membership provider for your application.

Answer: B,C

Question: 203

You create a Web site. The Web site has many predefined roles and associated users that will be used for security purposes. You need to manage these roles and user accounts.

Which tool should you use?

A. the Microsoft .NET Framework Configuration tool

B. the Code Access Security Policy tool

C. the ASP.NET IIS Registration tool

D. the Web Site Administration Tool

Answer: D

Question: 204

You are creating a Web Form. The Web Form allows users to select a category from a DropDownList control. Valid categories are stored in a database table. A SqlDataSource control retrieves the category data. You set the SelectQuery property of the SqlDataSource control by using the following code segment.

```
SELECT [CategoryID], [CategoryName] FROM [Categories]
```

You need to bind the DropDownList control to the data source control so that the category name is displayed to the user. The ID of the category must be stored as the user's selected item. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

A. Set the DataSourceID property of the DropDownList control to the identifier of the SqlDataSource control.

B. Set the DataMember property of the DropDownList control to the identifier of the SqlDataSource control.

C. Set the DataValueField property of the DropDownList control to CategoryID.

D. Set the DataTextField property of the DropDownList control to CategoryName.

E. Set the DataValueField property of the DropDownList control to CategoryName.

F. Set the DataTextField property of the DropDownList control to CategoryID.

Answer: A,C,D

Question: 205

You write a Web application. This application must support multiple languages. You store the localized strings in the application as resources. You want these resources to be accessed according to a users language preference. You create the following resource files in the App_GlobalResources folder of your application.myStrings.resxmyStrings.en-CA.resxmyString.en-US.resxmyStrings.fr-CA.resxmyStrings.es-MX resource file stores a localized version of the following strings: Name, E-mail, Address, and Phone. You create a Web Form that contains one label for each of these strings. You need to ensure that the correct localized version of each string is displayed in each label, according to a users language preference. What should you do?

A. Add the following configuration section to the Web.config file. <globalization culture="Auto" />

B. Set the directive for each page in your site as follows: <%@ Page UICulture="Auto" %>

C. Add the following code segment to the pages load event. lblName.Text = "{myStrings}Name"

lblAddress.Text = "{myStrings}Address" lblEmail.Text = "{myStrings}Email" lblPhone.Text = "{myStrings}Phone"

D. Add the following code segment to the pages load event. lblName.Text = Resources.myStrings.Name lblAddress.Text = Resources.myStrings.Address lblEmail.Text = Resources.myStrings.Email lblPhone.Text = Resources.myStrings.Phone

Answer: D

Question: 206

You write a logging function for a Web Form. You call the logging function from the Page_Unload event handler. You test the Web Form and notice that the Page_Unload event handler does not call the logging function. You need to ensure that the logging function is called. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Set the Page attribute to AutoEventWireup="False". Remove the attribute onunload="Page_Unload" from the Web Form element.
- B. Set the Page attribute to AutoEventWireup="False". Add the attribute OnUnload="Page_Unload" to the Web Form element.
- C. Set the Page attribute to AutoEventWireup="False". Add the Web Form attribute autocomplete=on.
- D. Set the Page attribute to AutoEventWireup="True".

Answer: B,D

Question: 207

You develop a Web application. Your application contains two settings in the Web.config file. You deploy your application to production. You need to modify the application settings in the production environment without manually editing the XML markup in the Web.config file. What should you do?

- A. Modify the application settings by using the Web Site Administration Tool.
- B. Modify the application settings by using the Visual Studio property page editor for the project.
- C. Modify the application settings by using the resource editor.
- D. Modify the application settings by using the Visual Studio start options editor.

Answer: A

Question: 208

You create a Web Form for the acceptance of donations. Users type donation amounts by using a TextBox control named txtAmount. The donation amount must be between 10 dollars and 10,000 dollars. You add the following RequiredFieldValidator and RangeValidator.

```
<asp:RangeValidator ID="valAmount" runat="server" ControlToValidate="txtAmount"
ErrorMessage="The valid range is 10 to 10000" MaximumValue="10000"
MinimumValue="10" Type="Currency">
</asp:RangeValidator><asp:RequiredFieldValidator ID="valAmountRequired"
runat="server" ControlToValidate="txtAmount" ErrorMessage="Please enter a value">
</asp:RequiredFieldValidator>
```

During testing you learn that when users fail to enter values before submitting the Web Form to the server, the message "Please enter a value" appears, as shown below. You need to ensure that the message appears immediately following the txtAmount TextBox control without extra spaces. What should you do?

- A. In the RangeValidator, set the Display property to Dynamic.
- B. In the RangeValidator, set the Display property to Static.
- C. In the RequiredFieldValidator, set the Display property to Dynamic.

D. In the RequiredFieldValidator, set the Display property to Static.

Answer: A

Question: 209

You create a Web Form that contains a text box named txtDate. You want the text box to allow users to enter any valid date. You need to use an ASP.NET validation control to ensure that only valid date values are submitted to the server. What should you do?

- A. Add a CompareValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its Operator property to DataTypeCheck.
- B. Add a RangeValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its MinimumValue property to 01/01/1900 and its MaximumValue to the current date.
- C. Add a CustomValidator control to the Web Form. Set its ControlToValidate property to txtDate. Write a function in the partial class that verifies the values as dates and returns a Boolean variable. Set the CustomValidators ClientValidationFunction to the name of your function.
- D. Add a RegularExpressionValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set the ValidationExpression property to ensure that the users input follows the format of nn-nn-nnnn, where n represents a number from 0 through 9.

Answer: A

Question: 210

You create a Web Form. You need to add controls that use adaptive rendering to display content. The type of content rendered must depend on the device that is requesting the page. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Add custom controls that emit XHTML to the Web Form.
- B. Add custom controls that emit WML to the Web Form.
- C. Add mobile controls to the Web Form.
- D. Add Web server controls to the Web Form.

Answer: C,D

Question: 211

You create a mobile Web application. You need to use a Command control to post user input from the UI elements back to the server. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Place the Command control within an instance of the System.Web.UI.MobileControls.SelectionList control.
- B. Place the Command control within an instance of the System.Web.UI.MobileControls.ObjectList control.
- C. Place the Command control within an instance of the System.Web.UI.MobileControls.Form control.
- D. Place the Command control within an instance of the System.Web.UI.MobileControls.Panel control.

Answer: C,D

Question: 212

You create a server control that inherits from WebControl. You need to enable the server control to emit markup for a new kind of mobile device. You must not alter the code in the server

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

- A. Create a class that inherits `HtmlTextWriter` and that can emit the new markup.
- B. Create a class that inherits `StreamWriter` and that can emit the new markup.
- C. Reference the class in the `<capabilities>` element of the new device's browser definition file.
- D. Reference the class in the `<controlAdapters>` element of the new device's browser definition file.

Answer: A,D

Question: 213

You are creating a mobile Web Form that displays Company.com's logo. The Web Form contains the following image control. `<mobile:Image ID="ImageLogo" runat=server ImageURL="logobw.gif"></mobile:Image>` You need to display the logo in black and white on devices that do not support color. In addition, you need to display the logo in color on devices that support color. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Add a method to the code-behind file named `isColor`. Ensure that it returns a Boolean value and takes an instance of the `MobileCapabilities` class and a string.
- B. Add a method to the code-behind file named `isColor`. Ensure that it uses the `MobileCapabilities` class and returns a string indicating the URL of the image to display.
- C. Add the following code segment between your image control definition tags.
`<DeviceSpecific> <Choice Filter="isColor" ImageURL="logo-color.gif" /></DeviceSpecific>`
- D. Add the following node to the `deviceFilters` element within the Web.config file. `<filter name="isColor" compare="IsColor" argument="true" />`

Answer: A,C

Question: 214

You are transferring records from one database to another. You need to decide whether you can use the `SqlBulkCopy` class to transfer the records. What should you do?

- A. Ensure that the source database is Microsoft SQL Server.
- B. Ensure that the destination database is Microsoft SQL Server.
- C. Ensure that the column names in the source table match the column names in the destination table.
- D. Ensure that the bulk copy program (bcp) utility is installed on the destination server.

Answer: B

Question: 215

You create a Web Form that contains a `TreeView` control. The `TreeView` control allows users to navigate within the Marketing section of your Web site. The following XML defines the site map for your site.

```
<siteMapNode url="~/default.aspx" title="Home" description="Site Home Page">
  <siteMapNode url="Sales.aspx" title="Sales" description="Sales Home">
    <siteMapNode url="SalesWest.aspx" title="West Region" description="Sales for the West Region" />
    <siteMapNode url="SalesEast.aspx" title="East Region" description="Sales for the East Region" />
  </siteMapNode>
  <siteMapNode url="Marketing.aspx" title="Marketing" description="Marketing Home">
    <siteMapNode url="MarketNational.aspx" title="National Campaign"
      description="National marketing campaign" />
    <siteMapNode url="MarketMidwest.aspx" title="Midwest Campaign"
```

```
description="Midwest region marketing campaign" />
<siteMapNode url="MarketSouth.aspx" title="South Campaign" description="South
region marketing campaign" />
</siteMapNode></siteMapNode>
```

You need to bind the TreeView control to the site map data so that users can navigate only within the Marketing section. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Add a SiteMapDataSource control to the Web Form and bind the TreeView control to it.
- B. Add a SiteMapPath control to the Web Form and bind the TreeView control to it.
- C. Embed the site map XML within the SiteMap node of a Web.sitemap file.
- D. Embed the site map XML within the AppSettings node of a Web.config file.
- E. Set the StartingNodeUrl property of the SiteMapDataSource control to ~/Marketing.aspx.
- F. Set the SkipLinkText property of the SiteMapPath control to Sales.

Answer: A,C,E

Question: 216

Exhibit: *** MISSING ***

You are developing a Web application. The Web application uses a GridView control to display data. You build your Web Forms for the Web application by dragging and dropping tables from the Data Connections tree in Server Explorer. You need to add a connection to your data by using the Add Connection dialog box as shown in the exhibit. During the process, you need to configure the .NET Data Provider that you use to create the data source objects. What should you do?

- A. Right-click the connection, and click Properties. Modify the Provider property of the data connection.
- B. Click the Change button, and change the data provider for the selected data source .
- C. Click the Advanced button, and change the Data Source property to the target provider.
- D. Click the Advanced button, and change the Application Name property to the target provider.

Answer: B

Question: 217

You create a Web Form. The Web Form allows users to log on to a Web site. You implement the login logic using a Login control named Login1.

The membership data for the application is stored in a SQL Express database in the App_Data directory.

You need to configure your application so that the membership data is stored in a local Microsoft SQL Server database.

You add the following code segment to the Web.config file.

```
<membership defaultProvider="MySqlProvider">
<providers>
<add name="MySqlProvider"
type="System.Web.Security.SqlMembershipProvider, System.Web,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a"
connectionStringName="MySqlProviderConnection"/>
</providers>
</membership>
```

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

- A. Use Aspnet_regsql.exe to create the Microsoft SQL Server database.
- B. Set Login1's MembershipProvider property to MySqlProviderConnection.

- C. Add the following code segment to the Web.config file. <connectionStrings> <add name="MySQLProviderConnection" connectionString="valid connection string" /></connectionStrings>
- D. Add the following code segment to the Web.config file. <appSettings><add key="MySQLProviderConnection" value="valid connection string" /></appSettings>
- E. In the ASP.NET configuration settings within IIS, ensure that Role Management Enabled is selected.
- F. Use the Web Site Administration Tool to select AspNetSqlMembershipProvider as the membership provider for your application.

Answer: B,C

Question: 218

You are creating a Web application that will run on an intranet. The Web application reads comma-delimited text files. The text files reside in a subdirectory below the Web application's root directory. Users must not be able to navigate directly to these files in a Web browser unless they are members of the Accounting role. You need to write an ASP.NET HTTP handler that will use the FileAuthorizationModule class. Which form of authentication should you use?

- A. Anonymous
- B. Certificate
- C. Forms
- D. Microsoft Windows Integrated Security

Answer: D

Question: 219

You create a Web site that is for members only. The behavior of the Web site changes according to the role of the user. The Web site uses the ASP.NET Membership control for creation of user accounts. You need to find out whether a user is a member of a particular role. What should you do?

- A. Pass the user names and passwords to Membership.ValidateUser.
- B. Pass the role names to User.IsInRole.
- C. Pass the role names to Roles.RoleExists.
- D. Pass the user names to Membership.GetUser.

Answer: B

Question: 220

You create a Web site. The Web site has many predefined roles and associated users that will be used for security purposes. You need to manage these roles and user accounts. Which tool should you use?

- A. the Microsoft .NET Framework Configuration tool
- B. the Code Access Security Policy tool
- C. the ASP.NET IIS Registration tool
- D. the Web Site Administration Tool

Answer: D

Question: 221

You are creating a Web Form. The Web Form allows users to select a category from a DropDownList control. Valid categories are stored in a database table. A SqlDataSource control retrieves the category data. You set the SelectQuery property of the SqlDataSource control by using the following code segment.

SELECT [CategoryID], [CategoryName] FROM [Categories]

You need to bind the DropDownList control to the data source control so that the category name is displayed to the user. The ID of the category must be stored as the user's selected item. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Set the DataSourceID property of the DropDownList control to the identifier of the SqlDataSource control.
- B. Set the DataMember property of the DropDownList control to the identifier of the SqlDataSource control.
- C. Set the DataValueField property of the DropDownList control to CategoryID.
- D. Set the DataTextField property of the DropDownList control to CategoryName.
- E. Set the DataValueField property of the DropDownList control to CategoryName.
- F. Set the DataTextField property of the DropDownList control to CategoryID.

Answer: A,C,D

Question: 222

You are transferring records from one database to another. You need to decide whether you can use the SqlBulkCopy class to transfer the records. What should you do?

- A. Ensure that the source database is Microsoft SQL Server.
- B. Ensure that the destination database is Microsoft SQL Server.
- C. Ensure that the column names in the source table match the column names in the destination table.
- D. Ensure that the bulk copy program (bcp) utility is installed on the destination server.

Answer: B

Question: 223

You create a Web application to process XML documents. The Web application receives XML document files from several sources, reads them, and stores them in a Microsoft SQL Server database. The Web application parses all incoming data files to ensure that they conform to an XML schema. You need to find all validation errors in the XML document. What should you do?

- A. Load the XML data by using an instance of the XmlDocument class and specify a location for the application schema.
- B. Configure the ValidationEventHandler in the XmlReaderSettings of the XmlReader object.
- C. Read the XML file into a DataSet object and set the EnforceConstraints property to True.
- D. Read the XML file into a DataSet object. Handle the DataSet.MergeFailed event to parse the data that does not conform to the XML schema.

Answer: B

Question: 224

Exhibit:

You are developing a Web application. The Web application uses a GridView control to display data. You build your Web Forms for the Web application by dragging and dropping tables from the Data Connections tree in Server Explorer. You need to add a connection to your data by using the Add Connection dialog box as shown in the exhibit. During the process, you need to configure the .NET Data Provider that you use to create the data source objects. What should you do?

- A. Right-click the connection, and click Properties. Modify the Provider property of the data connection.
- B. Click the Change button, and change the data provider for the selected data source.
- C. Click the Advanced button, and change the Data Source property to the target provider.
- D. Click the Advanced button, and change the Application Name property to the target provider.

Answer: B

Question: 225

You create a Web Form that contains a TreeView control. The TreeView control allows users to navigate within the Marketing section of your Web site. The following XML defines the site map for your site.

```
<siteMapNode url="~/default.aspx" title="Home"
description="Site Home Page">
<siteMapNode url="Sales.aspx" title="Sales"
```

```

description="Sales Home">
<siteMapNode url="SalesWest.aspx" title="West Region"
description="Sales for the West Region" />
<siteMapNode url="SalesEast.aspx" title="East Region"
description="Sales for the East Region" /> </siteMapNode>
<siteMapNode url="Marketing.aspx" title="Marketing"
description="Marketing Home">
<siteMapNode url="MarketNational.aspx" title="National Campaign"
description="National marketing campaign" />
<siteMapNode url="MarketMidwest.aspx" title="Midwest Campaign"
description="Midwest region marketing campaign" />
<siteMapNode url="MarketSouth.aspx" title="South Campaign"
description="South region marketing campaign" />
</siteMapNode>
</siteMapNode>

```

You need to bind the TreeView control to the site map data so that users can navigate only within the Marketing section.

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

- A. Add a SiteMapDataSource control to the Web Form and bind the TreeView control to it.
- B. Add a SiteMapPath control to the Web Form and bind the TreeView control to it.
- C. Embed the site map XML within the SiteMap node of a Web.sitemap file.
- D. Embed the site map XML within the AppSettings node of a Web.config file.
- E. Set the StartingNodeUrl property of the SiteMapDataSource control to ~/Marketing.aspx.
- F. Set the SkipLinkText property of the SiteMapPath control to Sales.

Answer: A,C,E

Question: 226

You are using the ASP.NET membership APIs to manage user accounts for a Web site. The Web.config file contains the definition for the membership provider. After modifying the Web.config file to enable password recovery, you create a PasswordReset.aspx file. You need to enable users to reset their passwords online. The new passwords must be sent to them by e-mail after they have logged on through the Login.aspx page. In addition, users must be required to answer their secret questions before resetting their passwords. Which code logic should you use?

- A. Add a PasswordRecovery element to the PasswordReset.aspx file and configure it.
- B. Modify the Page_Load to set the Membership.EnablePasswordReset to True in the PasswordReset.aspx file.
- C. Add a ChangePassword element to the PasswordReset.aspx file and configure it.
- D. Modify the Login.aspx form to include a Required Field validator on the secret question answer text box. Then redirect users to the PasswordReset.aspx file.

Answer: A

Question: 227

You are developing a Web application. The Web application uses the following code Segment to connect to a database.
 conn.ConnectionString="Server=(local);Initial Catalog=Company;Integrated Security= SSPI;";
 You create logins in Microsoft SQL Server for each user of the Web application. When you run the Web application, you receive the following error message. "Login failed for user 'COMPUTERNAME\ASPNET'." You need to resolve this error. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. In IIS, deny anonymous access.
- B. In the Web.config file, enable impersonation.
- C. In IIS, allow anonymous access.
- D. In the Web.config file, disable impersonation.
- E. In the Web.config file, set the authentication mode to Windows.

Answer: A,B

Question: 228

You develop a Web application. Your application contains two settings in the Web.config file. You deploy your application to production. You need to modify the application settings in the production environment without manually editing the XML markup in the Web.config file. What should you do?

- A. Modify the application settings by using the Web Site Administration Tool.
- B. Modify the application settings by using the Visual Studio property page editor for the project.
- C. Modify the application settings by using the resource editor.
- D. Modify the application settings by using the Visual Studio start options editor.

Answer: A

Question: 229

You create a Web Form that contains a text box named txtDate. You want the text box to allow users to enter any valid date. You need to use an ASP.NET validation control to ensure that only valid date values are submitted to the server. What should you do?

- A. Add a CompareValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its Operator property to DataTypeCheck.
- B. Add a RangeValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its MinimumValue property to 01/01/1900 and its MaximumValue to the current date.
- C. Add a CustomValidator control to the Web Form. Set its ControlToValidate property to txtDate. Write a function in the partial class that verifies the values as dates and returns a Boolean variable. Set the CustomValidators ClientValidationFunction to the name of your function.
- D. Add a RegularExpressionValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set the ValidationExpression property to ensure that the users input follows the format of nn-nn-nnnn, where n represents a number from 0 through 9.

Answer: A

Question: 230

You write a logging function for a Web Form. You call the logging function from the Page_Unload event handler. You test the Web Form and notice that the Page_Unload event handler does not call the logging function. You need to ensure that the logging function is called. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Set the Page attribute to AutoEventWireup="False". Remove the attribute onunload="Page_Unload" from the Web Form element.
- B. Set the Page attribute to AutoEventWireup="False". Add the attribute OnUnload="Page_Unload" to the Web Form element.
- C. Set the Page attribute to AutoEventWireup="False". Add the Web Form attribute autocomplete=on.

D. Set the Page attribute to AutoEventWireup="True".

Answer: B,D

Question: 231

Exhibit:

The screenshot shows a web form with a single text input field. To the right of the text field, the text "Please enter a value" is displayed in a small, black font, indicating a validation error. The entire form is enclosed in a thin black border.

You create a Web Form for the acceptance of donations. Users type donation amounts by using a TextBox control named txtAmount. The donation amount must be between 10 dollars and 10,000 dollars. You add the following RequiredFieldValidator and RangeValidator.

```
<asp:RangeValidator
ID="valAmount"
runat="server" ControlToValidate="txtAmount"
ErrorMessage="The valid range is 10 to 10000"
MaximumValue="10000" MinimumValue="10"
Type="Currency">
</asp:RangeValidator>
<asp:RequiredFieldValidator
ID="valAmountRequired"
runat="server" ControlToValidate="txtAmount"
ErrorMessage="Please enter a value">
</asp:RequiredFieldValidator>
```

During testing you learn that when users fail to enter values before submitting the Web Form to the server, the message "Please enter a value" appears, as shown in the exhibit. You need to ensure that the message appears immediately following the txtAmount TextBox control without extra spaces. What should you do?

- A. In the RangeValidator, set the Display property to Dynamic.
- B. In the RangeValidator, set the Display property to Static.
- C. In the RequiredFieldValidator, set the Display property to Dynamic.
- D. In the RequiredFieldValidator, set the Display property to Static.

Answer: A

Question: 232

You are developing a Web control. The Web control captures user address information in a Web application. You create a class named AddressControl that inherits from CompositeControl. This control consists of child controls. You need to ensure that the child controls are properly output to the browser. Developers using your control must be able to set the appropriate text for labels. In addition, they must be able to pull user address information from the associated text boxes during postback. What should you do?

- A. Override the EnsureChildControls method of the base class. Add the child controls to the base container.
- B. Override the CreateControlCollection method of the base class. Add the child controls to the ControlCollection class.
- C. Override the CreateChildControls method of the base class. Add the child controls to the base container.
- D. Override the DataBindChildren method of the base class. Add the child controls to the ControlCollection class.

Answer: C

Question: 233

You are creating a templated Web control for use in your Web application. You need to add the Web control to your Web application pages without compiling your control into a .dll file. What should you do?

- A. Ensure that the Web control inherits from the WebControl class.
- B. Ensure that the Web control inherits from the Control class.
- C. Ensure that the Web control inherits from the CompositeControl class.
- D. Ensure that the Web control inherits from the UserControl class.

Answer: D

Question: 234

You create a Web Form with several UI elements on it. During a code review, you realize that some of the UI elements can be grouped into user controls. You need to create a Web control to group the UI elements that do not require server-side processing. Doing so will enable you to programmatically add or remove the UI elements from the page. You want to maintain the UI elements' style properties. What should you do?

- A. Use System.Web.UI.TemplateControl to group the UI elements.
- B. Use System.Web.UI.HtmlControls.HtmlControl to group the UI elements.
- C. Use System.Web.UI.LiteralControl to group the UI elements.
- D. Use System.Web.UI.WebControls.Literal to group the UI elements.

Answer: C

Question: 235

You create a Web server control named ContosoControls. You add a Web custom control named ContosoMailer to it. You then distribute the Web Control Library files to your team. You need to provide your team with the correct procedure for adding the Web Control Library to the items in the toolbox of Microsoft Visual Studio .NET. Which procedure should you provide to the team?

- A. Within the toolbox, click Choose Items and then browse to and select the ContosoControls user control.
- B. Within the toolbox, click Choose Items and then browse to and select the ContosoMailer user control.
- C. Right-click Web Project, click Add Reference, and then browse to and select the ContosoControls.dll file.
- D. Within the toolbox, click Choose Items and then browse to and select the ContosoControls.dll file.

Answer: D

Question: 236

You are creating a custom control. The UI of the control must contain several text boxes and two buttons. The control must be available in the global assembly cache for reuse across multiple Web applications. You need to achieve this functionality by using the minimum amount of code. What should you do?

- A. Create a control that derives from System.Web.UI.Control.
- B. Create a control that derives from System.Web.UI.WebControls.CompositeControl.
- C. Create a control that derives from System.Web.UI.WebControls.WebControl.
- D. Create a control that derives from System.Web.UI.UserControl.

Answer: B

Question: 237

You have a Web application that is configured for personalization. You need to access personalization data from one of the pages of the Web application by using the minimum amount of administrative effort. What should you do?

- A. Access the personalization data from the Session property of the HttpContext object.
- B. Access the personalization data from the Application property of the HttpContext object.
- C. Access the personalization data from the Cache property of the HttpContext object.
- D. Access the personalization data from the Profile property of the HttpContext object.

Answer: D

Question: 238

You develop a Web application that contains two master pages. You need to dynamically set the master page when a user views pages in the application. What should you do?

- A. Set Page.MasterPageFile in the Page's Page_Init event.
- B. Set Page.MasterPageFile in the Page's OnInit event.
- C. Set Page.MasterPageFile in the Page's Page_Load event.
- D. Set Page.MasterPageFile in the Page's Page_PreInit event.

Answer: D

Question: 239

You create a Web Form. The Web Form contains two Web Parts named CustomerPart and OrdersPart. CustomerPart contains a drop-down list of customers. OrdersPart contains a list of orders that a customer has placed. You need to create a static connection between CustomerPart and OrdersPart. When a user selects a customer from CustomerPart, OrdersPart must update. Which four actions should you perform? (Each correct answer presents part of the solution. Choose four.)

- A. Add the ConnectionProvider attribute to OrdersPart.
- B. Add the ConnectionProvider attribute to CustomerPart.
- C. Add the ConnectionConsumer attribute to CustomerPart.
- D. Add the ConnectionConsumer attribute to OrdersPart.
- E. Add OrdersPart and CustomerPart to the WebParts directory.
- F. Add OrdersPart and CustomerPart to the App_Code directory.
- G. Declare the connections within a StaticConnections subtag of a WebPartZone class.
- H. Declare the connections within a StaticConnections subtag of a WebPartManager class.
- I. Define an interface specifying the methods and properties that are shared between the Web Parts.

Answer: B,D,H,I

Question: 240

You create a Web application for Company.com's intranet. You want to enable users to customize their versions of the intranet home page. You create sections of content as Web Parts. You need to ensure that users can customize content at any time. Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

- A. `<asp:ConnectionsZone ID="ConnectionsZone1" Runat="server"> <ConnectVerb Enabled="true" /></asp:ConnectionsZone>`
- B. `<asp:CatalogZone ID="CatalogZone1" Runat="server"> <ZoneTemplate> <asp:PageCatalogPart Runat="server" ID="PageCatalogPart1" />`

C. </ZoneTemplate></asp:CatalogZone>
D. <asp:WebPartZone ID="WebPartZone1" Runat="server"> <ZoneTemplate>
</ZoneTemplate></asp:WebPartZone> <asp:ProxyWebPartManager
ID="ProxyWebPartmanager1" Runat="server" />

Answer: B,C

Question: 241

You want to enable users of a Web application to modify the Web application's UI and behavior. These modifications must be maintained at the user level so that when users return to the Web application, the changes are still in effect. You need to achieve this goal by using the minimum amount of custom code. What should you do?

- A. Persist control data by using view state.
- B. Use Web Part controls.
- C. Maintain a profile for each user.
- D. Enable session state on the Web application.

Answer: B

Question: 242

You create a master page named Template.master. Template.master contains the following ContentPlaceHolder server controls.

```
<asp:contentplaceholder id="area1" runat="server"/>  
<asp:contentplaceholder id="area2" runat="server"/>
```

You also create 10 Web Forms. The Web Forms reference Template.master as their master page. Each Web Form has the following Content controls that correspond to the ContentPlaceHolder controls in Template.master.

```
<asp:Content ContentPlaceHolderID="area1" Runat="Server"/>  
<asp:Content ContentPlaceHolderID="area2" Runat="Server"/>
```

You need to configure the Web pages so that default content will be shown in the area2 ContentPlaceHolder control whenever a Web Form does not provide that content.

What should you do?

- A. Move default content inside area2 in Template.master. Remove area2 from Web Forms that do not provide content.
- B. Move default content inside area2 in Template.master. Leave area2 blank in Web Forms that do not provide content.
- C. Move default content inside area2 in the Web Forms. Remove area2 from Template.master.
- D. Create an additional ContentPlaceHolder control in Template.master named area2_default. Place default content inside area2_default. Remove area2 from Web Forms that do not provide content.

Answer: A

Question: 243

You are creating a mobile Web Form that displays Company.com's logo. The Web Form contains the following image control.

```
<mobile:Image ID="ImageLogo" runat=server ImageURL="logo-bw.gif">  
</mobile:Image>
```

You need to display the logo in black and white on devices that do not support color. In addition, you need to display the logo in color on devices that support color.

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

- A. Add a method to the code-behind file named isColor. Ensure that it returns a Boolean value

and takes an instance of the MobileCapabilities class and a string.

B. Add a method to the code-behind file named isColor. Ensure that it uses the MobileCapabilities class and returns a string indicating the URL of the image to display.

C. Add the following code segment between your image control definition tags.

```
<DeviceSpecific> <Choice Filter="isColor" ImageURL="logo-color.gif" /></DeviceSpecific>
```

D. Add the following node to the deviceFilters element within the Web.config file. <filter name="isColor" compare="IsColor" argument="true" />

Answer: A,C

Question: 244

You create a Web Form. You need to add controls that use adaptive rendering to display content. The type of content rendered must depend on the device that is requesting the page. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. Add custom controls that emit XHTML to the Web Form.

B. Add custom controls that emit WML to the Web Form.

C. Add mobile controls to the Web Form.

D. Add Web server controls to the Web Form.

Answer: C,D

Question: 245

You create a mobile Web application. You need to use a Command control to post user input from the UI elements back to the server. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. Place the Command control within an instance of the System.Web.UI.MobileControls.SelectionList control.

B. Place the Command control within an instance of the System.Web.UI.MobileControls.ObjectList control.

C. Place the Command control within an instance of the System.Web.UI.MobileControls.Form control.

D. Place the Command control within an instance of the System.Web.UI.MobileControls.Panel control.

Answer: C,D

Question: 246

You create a server control that inherits from WebControl. You need to enable the server control to emit markup for a new kind of mobile device. You must not alter the code in the server controls. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two)

A. Create a class that inherits HtmlTextWriter and that can emit the new markup.

B. Create a class that inherits StreamWriter and that can emit the new markup.

C. Reference the class in the <capabilities> element of the new device's browser definition file.

D. Reference the class in the <controlAdapters> element of the new device's browser definition file.

Answer: A,D

Question: 247

You create a Web application. The Web application enables users to change fields in their personal profiles. Some of the changes are not persisting in the database. You need to raise a custom event to track each change that is made to a user profile so that you can locate the error. Which event should you use?

- A. WebAuditEvent
- B. WebEventManager
- C. WebBaseEvent
- D. WebRequestEvent

Answer: C

Question: 248

You create a large, n-tier Web application that has a custom event tracking system. You need to create a custom event type that enables your event tracking system to record all relevant event details for all types of events. The events must be stored in Microsoft SQL Server. From which base type should your custom event type inherit?

- A. IWebEventCustomEvaluator
- B. WebEventProvider
- C. WebBaseEvent
- D. WebAuditEvent

Answer: C

Question: 249

You create a Web site that you must copy from a development server to a testing server, along with all source files. You do not have terminal access to the testing server. You need to create the virtual directory. Then you must copy the Web site to the virtual directory on the testing server without precompiling the site. What should you do?

- A. Use the Publish Web tool.
- B. Use the Copy Web tool.
- C. Use the command line to XCOPY the files.
- D. Create a Web Setup project.

Answer: B

Question: 250

Your team creates a Web site. The Web site needs to be deployed to a staging server for performance testing. You plan to make a number of performance enhancements and then retest. You need to compile and copy the Web site to the staging server. What should you do?

- A. Write a batch file that uses aspnet_compiler.exe.
- B. Write a batch file that uses InstallUtil.exe.
- C. Write a batch file that uses Csc.exe.
- D. Write a batch file that uses aspnet_wp.exe.

Answer: A

Question: 251

You are deploying a Web site to a server managed by a hosting company. The only access you have to the server is through FTP. You need to precompile and deploy the Web site without its source files. What should you do?

- A. Use the Copy Web tool.
- B. Use the Publish Web tool.
- C. Use XCOPY.
- D. Use the Web Setup project Installer.

Answer: B

Question: 252

You are working with a team of developers on a Web site. You copy the Web site from the staging server to work on it locally. While making changes, you create new C# source code files and delete old ones. You need to ensure that your changes propagate to the staging server without affecting any files that you have not modified. Which tool should you use?

- A. XCOPY
- B. the Copy Web tool
- C. the Publish Web tool
- D. a Web Setup project

Answer: B

Question: 253

Exhibit: *** MISSING ***

You develop a Web control to manage credit card information. The Web control is shown in the exhibit.

You register the control on the Web Form by using the following code segment. <%@ Register Assembly="CreditCardUserDetails" Namespace="CreditCardUserDetails" TagPrefix="cc1" %> You need to declare the control on the Web Form. Which code segment should you use?

- A. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server" Name="test"></cc1:CreditCardDetails><asp:TextBox ID="TxtName" runat="server" Text="<%#CreditCardDetails1.Name%>"></asp:TextBox>
- B. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server" Name="<%#Container.Name%>"></cc1:CreditCardDetails>
- C. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server"> <Template> <asp:TextBox ID="TxtName" runat="server" Text="<%#Container.Name%>"></asp:TextBox> </Template></cc1:CreditCardDetails>
- D. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server"> <Template> <asp:TextBox ID="TxtName" runat="server" Text="<%#Container.Template%>"></asp:TextBox> </Template></cc1:CreditCardDetails>

Answer: C

Question: 254

You create a Web Form with several UI elements on it. During a code review, you realize that some of the UI elements can be grouped into user controls. You need to create a Web control to group the UI elements that do not require server-side processing. Doing so will enable you to programmatically add or remove the UI elements from the page. You want to maintain the UI elements' style properties. What should you do?

- A. Use System.Web.UI.TemplateControl to group the UI elements.
- B. Use System.Web.UI.HtmlControls.HtmlControl to group the UI elements.
- C. Use System.Web.UI.LiteralControl to group the UI elements.
- D. Use System.Web.UI.WebControls.Literal to group the UI elements.

Answer: C

Question: 255

You create a Web server control named ContosoControls. You add a Web custom control named ContosoMailer to it. You then distribute the Web Control Library files to your team. You need to provide your team with the correct procedure for adding the Web Control Library to the items in the toolbox of Microsoft Visual Studio .NET. Which procedure should you provide to the team?

- A. Within the toolbox, click Choose Items and then browse to and select the ContosoControls user control.
- B. Within the toolbox, click Choose Items and then browse to and select the ContosoMailer user control.
- C. Right-click Web Project, click Add Reference, and then browse to and select the ContosoControls.dll file.
- D. Within the toolbox, click Choose Items and then browse to and select the ContosoControls.dll file.

Answer: D

Question: 256

You are creating a templated Web control for use in your Web application. You need to add the Web control to your Web application pages without compiling your control into a .dll file. What should you do?

- A. Ensure that the Web control inherits from the WebControl class.
- B. Ensure that the Web control inherits from the Control class.
- C. Ensure that the Web control inherits from the CompositeControl class.
- D. Ensure that the Web control inherits from the UserControl class.

Answer: D

Question: 257

You are creating a custom control. The UI of the control must contain several text boxes and two buttons. The control must be available in the global assembly cache for reuse across multiple Web applications. You need to achieve this functionality by using the minimum amount of code. What should you do?

- A. Create a control that derives from System.Web.UI.Control.
- B. Create a control that derives from System.Web.UI.WebControls.CompositeControl.
- C. Create a control that derives from System.Web.UI.WebControls.WebControl.
- D. Create a control that derives from System.Web.UI.UserControl.

Answer: B

Question: 258

You are developing a Web control. The Web control captures user address information in a Web application. You create a class named AddressControl that inherits from CompositeControl. This control consists of child controls. You need to ensure that the child controls are properly output to the browser. Developers using your control must be able to set the appropriate text for labels. In addition, they must be able to pull user address information from the associated text boxes during postback. What should you do?

- A. Override the EnsureChildControls method of the base class. Add the child controls to the base container.
- B. Override the CreateControlCollection method of the base class. Add the child controls to the ControlCollection class.
- C. Override the CreateChildControls method of the base class. Add the child controls to the base container.
- D. Override the DataBindChildren method of the base class. Add the child controls to the ControlCollection class.

Answer: C

Question: 259

You create a master page named Template.master. Template.master contains the following ContentPlaceHolder server controls.

```
<asp:contentplaceholder id="area1" runat="server"/>
```

```
<asp:contentplaceholder id="area2" runat="server"/>
```

You also create 10 Web Forms. The Web Forms reference Template.master as their master page. Each Web Form has the following Content controls that correspond to the ContentPlaceHolder controls in Template.master.

```
<asp:Content ContentPlaceHolderID="area1" Runat="Server"/>
```

```
<asp:Content ContentPlaceHolderID="area2" Runat="Server"/>
```

You need to configure the Web pages so that default content will be shown in the area2 ContentPlaceHolder control whenever a Web Form does not provide that content. What should you do?

- A. Move default content inside area2 in Template.master. Remove area2 from Web Forms that do not provide content.
- B. Move default content inside area2 in Template.master. Leave area2 blank in Web Forms that do not provide content.
- C. Move default content inside area2 in the Web Forms. Remove area2 from Template.master.
- D. Create an additional ContentPlaceHolder control in Template.master named area2_default. Place default content inside area2_default. Remove area2 from Web Forms that do not provide content.

Answer: A

Question: 260

You create a Web application for Company.com's intranet. You want to enable users to customize their versions of the intranet home page. You create sections of content as Web Parts. You need to ensure that users can customize content at any time. Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

A.

```
<asp:ConnectionsZone ID="ConnectionsZone1" Runat="server"> <ConnectVerb Enabled="true" /></asp:ConnectionsZone>
```

B.

```
<asp:CatalogZone ID="CatalogZone1" Runat="server"> <ZoneTemplate>  
<asp:PageCatalogPart Runat="server" ID="PageCatalogPart1" />  
</ZoneTemplate></asp:CatalogZone>
```

C.

```
<asp:WebPartZone ID="WebPartZone1" Runat="server"> <ZoneTemplate>  
</ZoneTemplate></asp:WebPartZone>
```

D.

```
<asp:ProxyWebPartManager ID="ProxyWebPartmanager1" Runat="server" />
```

Answer: B,C

Question: 261

You want to enable users of a Web application to modify the Web application's UI and behavior. These modifications must be maintained at the user level so that when users return to the Web application, the changes are still in effect. You need to achieve this goal by using the minimum amount of custom code. What should you do?

- A. Persist control data by using view state.
- B. Use Web Part controls.
- C. Maintain a profile for each user.
- D. Enable session state on the Web application.

Answer: B

Question: 262

You develop a Web application that contains two master pages. You need to dynamically set the master page when a user views pages in the application. What should you do?

- A. Set Page.MasterPageFile in the Page's Page_Init event.
- B. Set Page.MasterPageFile in the Page's OnInit override.
- C. Set Page.MasterPageFile in the Page's Page_Load event.
- D. Set Page.MasterPageFile in the Page's Page_PreInit event.

Answer: D

Question: 263

You create a master page named Article.master. Article.master serves as the template for articles on your Web site. The master page uses the following page directives. <%@ Master Language="VB" CodeFile="article.master.vb" Inherits="article" %> You need to create a content page that uses the master page as a template. In addition, you need to use a single master page for all devices that access the Web site. Which code segment should you use?

- A. <%@ Page Language="VB" Theme="article"%>
- B. <%@ Page Language="VB" MasterPageFile="~/article.master"%>
- C. <%@ Page Language="VB" ie:MasterPageFile="~/article.master"%>
- D. <%@Page Language="VB" all:MasterPageFile="~/article.master"%>

Answer: B

Question: 264

You have a Web application that is configured for personalization. You need to access personalization data from one of the pages of the Web application by using the minimum amount of administrative effort. What should you do?

- A. Access the personalization data from the Session property of the HttpContext object.
- B. Access the personalization data from the Application property of the HttpContext object.
- C. Access the personalization data from the Cache property of the HttpContext object.
- D. Access the personalization data from the Profile property of the HttpContext object.

Answer: D

Question: 265

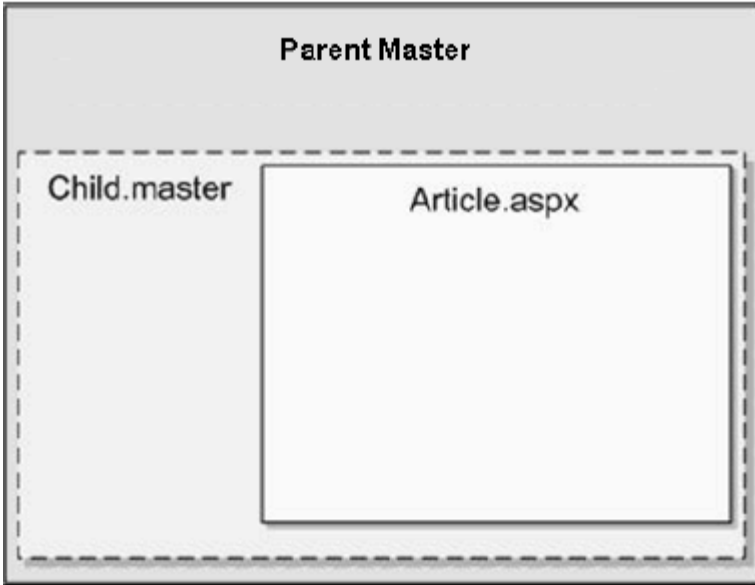
You create a Web Form. The Web Form contains two Web Parts named CustomerPart and OrdersPart. CustomerPart contains a drop-down list of customers. OrdersPart contains a list of orders that a customer has placed. You need to create a static connection between CustomerPart and OrdersPart. When a user selects a customer from CustomerPart, OrdersPart must update. Which four actions should you perform? (Each correct answer presents part of the solution. Choose four.)

- A. Add the ConnectionProvider attribute to OrdersPart.
- B. Add the ConnectionProvider attribute to CustomerPart.
- C. Add the ConnectionConsumer attribute to CustomerPart.
- D. Add the ConnectionConsumer attribute to OrdersPart.
- E. Add OrdersPart and CustomerPart to the WebParts directory.
- F. Add OrdersPart and CustomerPart to the App_Code directory.
- G. Declare the connections within a StaticConnections subtag of a WebPartZone class.
- H. Declare the connections within a StaticConnections subtag of a WebPartManager class.
- I. Define an interface specifying the methods and properties that are shared between the Web Parts.

Answer: B,D,H,I

Question: 266

Exhibit:



You create a master page named Parent.master that contains a global header for your Web application. You add a ContentPlaceHolder to Parent.master by using the following code segment.

You also create a content page named Article.aspx by using the following code segment.

```
<%@ Page Language="C#" MasterPageFile="~/navigation.master"%>
```

```
<asp:Content ContentPlaceHolderID="article" Runat="Server">
```

Article content to go here</asp:Content>You need to create a child master page that contains the navigation for each section. The users must be able to see the header, the navigation, and the article when they view the page, as shown in the exhibit.

Which code segment should you use?

A. `<%@ Master Language="C#" MasterPageFile="~/parent.master"%> <asp:Content runat="server" ContentPlaceHolderID="pagebody"> Navigation element 1<br /> Navigation element 2<br /> <asp:contentplaceholder id="article" runat="server">`
`</asp:contentplaceholder></asp:Content>`

B. `<%@ Master Language="C#" MasterPageFile="~/parent.master"%><asp:Content runat="server" ContentPlaceHolderID="pagebody"> <asp:contentplaceholder id="article" runat="server"> Navigation element 1<br /> Navigation element 2<br />`
`</asp:contentplaceholder></asp:Content>`

C. `<%@ Master Language="C#" MasterPageFile="~/parent.master"%><asp:Content runat="server" ContentPlaceHolderID="article"> Navigation element 1<br /> Navigationelement 2<br /> <asp:contentplaceholder id="pagebody" runat="server">`
`</asp:contentplaceholder></asp:Content>`

D. `<%@ Master Language="C#" MasterPageFile="~/parent.master"%><asp:Content runat="server" ContentPlaceHolderID="article"> <asp:contentplaceholder id="pagebody" runat="server"> Navigation element 1<br /> Navigation element 2<br />`
`</asp:contentplaceholder></asp:Content>`

Answer: A

Question: 267

You create a Web Form that contains a TreeView control. The TreeView control allows users to navigate within the Marketing section of your Web site. The following XML defines the site map for your site.

```
<siteMapNode url="~/default.aspx" title="Home" description="Site Home Page">
```

```
<siteMapNode url="Sales.aspx" title="Sales" description="Sales Home">
```

```
<siteMapNode url="SalesWest.aspx" title="West Region" description="Sales for the
```

```

West Region" />
<siteMapNode url="SalesEast.aspx" title="East Region" description="Sales for the East Region"
/>
</siteMapNode>
<siteMapNode url="Marketing.aspx" title="Marketing" description="Marketing Home">
<siteMapNode url="MarketNational.aspx" title="National Campaign"
description="National marketing campaign" />
<siteMapNode url="MarketMidwest.aspx" title="Midwest Campaign"
description="Midwest region marketing campaign" />
<siteMapNode url="MarketSouth.aspx" title="South Campaign" description="South region
marketing campaign" />
</siteMapNode></siteMapNode>

```

You need to bind the TreeView control to the site map data so that users can navigate only within the Marketing section.

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

- A. Add a SiteMapDataSource control to the Web Form and bind the TreeView control to it.
- B. Add a SiteMapPath control to the Web Form and bind the TreeView control to it.
- C. Embed the site map XML within the SiteMap node of a Web.sitemap file.
- D. Embed the site map XML within the AppSettings node of a Web.config file.
- E. Set the StartingNodeUrl property of the SiteMapDataSource control to ~/Marketing.aspx.
- F. Set the SkipLinkText property of the SiteMapPath control to Sales.

Answer: A,C,E

Question: 268

You are transferring records from one database to another. You need to decide whether you can use the SqlBulkCopy class to transfer the records. What should you do?

- A. Ensure that the source database is Microsoft SQL Server.
- B. Ensure that the destination database is Microsoft SQL Server.
- C. Ensure that the column names in the source table match the column names in the destination table.
- D. Ensure that the bulk copy program (bcp) utility is installed on the destination server.

Answer: B

Question: 269

You create an application. The application processes hundreds of XML documents per minute. The XML documents are validated against inline schemas. You need to load XML documents from the file system and read them as quickly as possible. XML comments must be ignored while reading the XML documents. What should you do?

- A. Create an instance of the XmlReader class by using the XmlReader Create method with an instance of the XmlReaderSettings class.
- B. Create an instance of the XmlReader class with an instance of the XmlTextReader class.
- C. Create an instance of the XmlDocument class and specify a location for the application schema.
- D. Create an instance of the XmlReader class with an instance of the XmlNodeReader class.

Answer: A

Question: 270

You are developing an application that connects to a Microsoft SQL Server database using the SqlConnection object. Your connection objects are being pooled. As the pool fills up, connection

requests are queued. Some connection requests are rejected. You need to ensure that the application releases connections back to the pool as soon as possible. Also, you need to decrease the likelihood that connection requests will be rejected. Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. Ensure that the Close method is called on each connection object after it has finished executing.
- B. Ensure that each connection object is left open after it has finished executing.
- C. Increase the Max Pool Size value inside the connection string.
- D. Increase the Min Pool Size value inside the connection string.
- E. Increase the Connection Lifetime value inside the connection string.
- F. Increase the value of the ConnectionTimeout property of the SqlConnection object.

Answer: A,C,F

Question: 271

You write a Web application. This application must support multiple languages. You store the localized strings in the application as resources. You want these resources to be accessed according to a users language preference. You create the following resource files in the App_GlobalResources folder of your application.

myStrings.resx
myStrings.en-CA.resx
myStrings.en-US.resx
myStrings.fr-CA.resx
myStrings.es-MX.resx

Each resource file stores a localized version of the following strings: Name, E-mail, Address, and Phone. You create a Web Form that contains one label for each of these strings. You need to ensure that the correct localized version of each string is displayed in each label, according to a users language preference. What should you do?

- A. Add the following configuration section to the Web.config file. `<globalization culture="Auto" />`
- B. Set the directive for each page in your site as follows: `<%@ Page UICulture="Auto" %>`
- C. Add the following code segment to the pages load event. `lblName.Text = @"{myStrings}Name"; lblAddress.Text = @"{myStrings}Address"; lblEmail.Text = @"{myStrings}Email"; lblPhone.Text = @"{myStrings}Phone";`
- D. Add the following code segment to the pages load event. `lblName.Text = Resources.myStrings.Name; lblAddress.Text = Resources.myStrings.Address; lblEmail.Text = Resources.myStrings.Email; lblPhone.Text = Resources.myStrings.Phone;`

Answer: D

Question: 272

You create a Web Form that contains a text box named txtDate. You want the text box to allow users to enter any valid date. You need to use an ASP.NET validation control to ensure that only valid date values are submitted to the server. What should you do?

- A. Add a CompareValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its Operator property to DataTypeCheck.
- B. Add a RangeValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set its Type property to Date. Set its MinimumValue property to 01/01/1900 and its MaximumValue to the current date.
- C. Add a CustomValidator control to the Web Form. Set its ControlToValidate property to txtDate. Write a function in the partial class that verifies the values as dates and returns a Boolean variable. Set the CustomValidators ClientValidationFunction to the name of your function.
- D. Add a RegularExpressionValidator control to the Web Form. Set its ControlToValidate property to txtDate. Set the ValidationExpression property to ensure that the users input follows the format of nn-nn-nnnn, where n represents a number from 0 through 9.

Answer: A

Question: 273

You create a Web Form that contains a button named btnCancel that enables users to exit the page. When users click this button, validation must not occur. During testing you learn that clicking the Cancel button does not enable users to exit the page. You need to ensure that users can always exit the page. What should you do?

- A. Set the Enabled property of the validation controls on the Web Form to False.
- B. Set the CausesValidation property of the btnCancel button to False.
- C. Set the CausesValidation property of the btnCancel button to True.
- D. Set the Visible property of the validation controls on the Web Form to False.

Answer: B

Question: 274

Your Web site uses custom Themes. Your Web site must support additional Themes based on the user's company name. The company name is set when a user logs on to the Web site. The company's Theme name is stored in a variable named ThemeName. You need to use this variable to dynamically set the Web site's Theme. What should you do?

- A. Add the following code segment to the markup source of each page on the Web site. <%@Page Theme="ThemeName" ... %>
- B. Add the following code segment to the Load event of each page on the Web site.
Page.Theme = ThemeName;
- C. Add the following code segment to the PreInit event of each page on the Web site.
Page.Theme = ThemeName;
- D. Add the following code segment to the Web site's configuration file. <pages theme="ThemeName" />

Answer: C

Question: 275

You create a Web Form that allows users to create a new account. You add a CreateUserWizard control by using the following code segment.

```
<asp:CreateUserWizard id="Wizard1" runat="server"/>
```

You need to ensure that the wizard automatically sends an e-mail message to users when they finish creating their accounts. You add a valid <smtp> element to the Web.config file. Which code segment should you add to the Page_Load event?

- A. Wizard1.RequireEmail = true;
- B. Wizard1.Email = "user@address.com";
- C. Wizard1.MailDefinition.From = "registrationdmysite.com";
- D. SmtMail1.SmtpServer = "mail.contoso.com";

Answer: C

Question: 276

You create a Web site that is for members only. The Web site allows members to create lists of users that have access to information about member profiles. The name of the list is stored in the listName variable. The user name of the user to whom access is given is stored in the username variable. You need to enable members to manage their lists of users. Which code segment should you use?

- A. Roles.CreateRole(listName);User.IsInRole(listName);

- B. Roles.CreateRole(listName);Roles.AddUserToRole(username, listName);
- C. Roles.RoleExists(listName);Roles.AddUserToRole(username,listName);
- D. Roles.RoleExists(listName);User.IsInRole(listName);

Answer: B

Question: 277

You have an SQL query that takes one minute to execute. You use the following code segment to execute the SQL query asynchronously. IAsyncResult ar = one second to run while the SQL query is executing. DoWork() must run as many times as possible while the SQL query is executing. Which code segment should you use?

- A. while (ar.AsyncWaitHandle == null) { DoWork();}dr = cmd.EndExecuteReader(ar);
- B. while (!ar.IsCompleted) { DoWork(); } dr == cmd.EndExecuteReader(ar);
- C. while (Thread.CurrentThread.ThreadState == ThreadState.Running) { DoWork();} dr cmd. EndExecuteReader(ar);
- D. while(!ar.AsyncWaitHandle.WaitOne()) { DoWork();}dr = cmd.EndExecuteReader(ar);

Answer: B

Question: 278

You are creating a DataTable. You use the following code segment to create the DataTable. (Line numbers are included for reference only.)

```
01 DataTable dt = new DataTable("Products");
02 dt.Columns.Add(new DataColumn("Price", typeof(decimal)));
03 dt.Columns.Add(new DataColumn("Quantity", typeof(Int32)));
04 DataColumn dc = new DataColumn("Total", typeof(decimal));
05 dt.Columns.Add(dc);
```

You need to ensure that the Total column is set to the value of the Price column multiplied by the Quantity column when new rows are added or changed. What should you do?

- A. Add the following code segment after line 05. dc.ExtendedProperties["Total"] = "Price * Quantity";
- B. Add the following code segment after line 05. dc.Expression = "Price * Quantity";
- C. Write an event handler for the DataTable's TableNewRow event that updates the row's Total.
- D. Write an event handler for the DataTable's ColumnChanged event that updates the row's Total.

Answer: B

Question: 279

You are creating a Web Form. The Web Form allows users to rename or delete products in a list. You create a DataTable named dtProducts that is bound to a GridView.

DataTable has the following four rows.

```
dtProducts.Rows[0] ["Product Name"] = "Soap";
dtProducts.Rows[1] ["Product Name"] = "Book";
dtProducts.Rows[2] ["Product Name"] = "Computer";
dtProducts.Rows[3] ["Product Name"] = "Spoon";
dtProducts.AcceptChanges();
```

The user utilizes a Web Form to delete the first product. You need to set the RowStateFilter property of the DataTable's DefaultView so that only products that have not been deleted are shown. To which value should you set the DataTable's DefaultView.RowStateFilter?

- A. DataRowState.ModifiedOrigin1
- B DataRowState.ModifiedCurrent,
- C. DataRowState.CurrentRows;
- D. DataRowState.Added:

Answer: C

Question: 280

You load an XmlDocument named doc with the following XML.

```
<bookstore>
<books>
<book>
<title>World Atlas</title>
/book>
<book>
<title>Dictionary</title>
</book>
</books>
</bookstore>
```

You need to use an XPath query string to select the two book nodes. Which code segment should you use?

- A. XmlElement root = doc.DocumentElement; XmlNodeList nodes = root.SelectNodes(".");
- B. XmlElement root = doc.DocumentElement; XmlNodeList nodes = root.SelectNodes("book");
- C. XmlElement root = doc.DocumentElement; XmlNodeList nodes = root.SelectNodes("bookstore//book");
- D. XmlElement root = doc.DocumentElement; XmlNodeList nodes = root.SelectNodes("books/book");

Answer: D

Question: 281

You create a master page named PageBase.master. The master page contains a Label control named lblTitle. You create a content page that references the master page. You need to change the Text property of the master page's lblTitle control from the content page. Which code segment should you use?

- A. Label lblTitle = (Label)Master.FindControl("lblTitle"); lblTitle.Text = "Articles";
- B. Label lblTitle = (Label)Parent.FindControl("lblTitle"); lblTitle.Text = "Articles";
- C. Master.Page.Title = "Articles";
- D. ((Label)Page.FindControl("lblTitle")).Text = "Articles";

Answer: A

Question: 282

You create a master page named Article.master. Article.master serves as the template for articles on your Web site. The master page uses the following page directives. <%@ Master Language="C#" Src="~/article.master.cs" Inherits="article" %> You need to create a content page that uses the master page as a template. In addition, you need to use a single master page for all devices that access the Web site.

Which code segment should you use?

- A. <%@ Page Language="C#" Theme="article"%>
- B. <%@ Page Language="C#" MasterPageFile="~/article.master"%>
- C. <%@ Page Language="C#" ie:MasterPageFile="~/article.master"%>
- D. <%@ Page Language="C#" all:MasterPageFile="~/article.master"%>

Answer: B

Question: 283

Exhibit:

```
public class CreditCardDetails : CompositeControl {

    private string _name = "";
    private ITemplate _template = null;

    [Bindable(true), Category("Data"),
    Description("User name on the credit card")]
    public string Name {
        get {
            EnsureChildControls();
            return _name;
        }
        set {
            EnsureChildControls();
            _name = value;
        }
    }

    //other properties excluded ...

    [Browsable(false),
    PersistenceMode(PersistenceMode.InnerProperty),
    TemplateContainer(typeof(CreditCardDetails))]
    public ITemplate Template {
        get {
            return _template;
        }
        set {
            _template = value;
        }
    }

    protected override void CreateChildControls() {
        if (Template != null) {
            Controls.Clear();
            _template.InstantiateIn(this);
        }
    }
}
```

You develop a Web control to manage credit card information. The Web control is shown in the exhibit.

You register the control on the Web Form by using the following code segment.

```
<%@ Register Assembly="CreditCardUserDetails"
Namespace="CreditCardUserDetails" TagPrefix="cc1" %>
```

You need to declare the control on the Web Form.

Which code segment should you use?

- A. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server" Name="test"></cc1:CreditCardDetails><asp:TextBox ID="TxtName" runat="server" Text="<%=CreditCardDetails1.Name%"></asp:TextBox>
- B. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server" Name="<%=Container.Name%"></cc1:CreditCardDetails>

C. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server"> <Template> <asp:TextBox ID="TxtName" runat="server" Text="<%=Container.Name%>"></asp:TextBox>
</Template></cc1:CreditCardDetails>
D. <cc1:CreditCardDetails ID="CreditCardDetails1" runat="server"> <Template> <asp:TextBox ID="TxtName" runat="server" Text="<%=Container.Template%>"></asp:TextBox>
</Template></cc1:CreditCardDetails>

Answer: C

Question: 284

You write a Web application. This application must support multiple languages. You store the localized strings in the application as resources. You want these resources to be accessed according to a users language preference. You create the following resource files in the App_GlobalResources folder of your application. myStrings.resx

myStrings.en-CA.resx
myString.en-US.resx
myStrings.fr-CA.resx
myStrings.es-MX.resx

Each resource file stores a localized version of the following strings: Name, E-mail, Address, and Phone. You create a Web Form that contains one label for each of these strings. You need to ensure that the correct localized version of each string is displayed in each label, according to a users language preference. What should you do?

- A. Add the following configuration section to the Web.config file. <globalization culture="Auto" />
- B. Set the directive for each page in your site as follows: <%@ Page UICulture="Auto" %>
- C. Add the following code segment to the pages load event. lblName.Text = @">{myStrings}Name"; lblAddress.Text = @">{myStrings}Address"; lblEmail.Text= @">{myStrings}Email"; lblPhone.Text = @">{myStrings}Phone";
- D. Add the following code segment to the pages load event. lblName.Text = Resources.myStrings.Name; lblAddress.Text = Resources.myStrings.Address; lblEmail.Text = Resources.myStrings.Email; lblPhone.Text= Resources.myStrings.Phone;

Answer: D

Question: 285

You are working on an existing Web site. You need to secure the Web site by redirecting all users to the logon page, Login.aspx. After logging on, users must be sent back to the page that they originally requested. Which code segment should you use?

- A. In the Web.config file: <authorization> <deny users="*" /></authorization> On each page in the Web site: void Page_Load(Object sender, EventArgs E){ FormsAuthentication.Initialize(); //Rest of the Page_Load code goes here}
- B. On each page in the Web site: void Page_Load(Object sender, EventArgs E){ goes here} FormsAuthentication.RedirectToLoginPage("login.aspx"); //Rest of the Page_Load code
- C. On each page in the Web site: void Page_Load(Object sender, EventArgs E){ Response.Redirect("login.aspx"); //Rest of the Page_Load code goes here}
- D. In the Web.config file: <authentication mode="Forms"> <forms name=".ASPXUSERDEMO" loginUrl="login.aspx" protection="All" timeout="60" /></authentication>

Answer: D

Question: 286

You develop a Web application that writes data to a file on a server. You restrict access to the file to specific Windows users. The Web application runs as CONTOSO\ASPNET. You deny anonymous access to the application in IIS. You add the following XML segment in the

Web.config file. <authentication mode="Windows"/>

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

1. It must impersonate the user when it writes data to the file
2. It must run as CONTOSO\ASPNET when a user does not access the file.

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

- A. Use the following XML segment in the Web.config file. <identity impersonate="false"/>
- B. Use the following XML segment in the Web.config file. <identity impersonate="true"/>
- C. Use the following code segment to access the file. WindowsPrincipal wp = (WindowPrincipal)HttpContext.Current.User; WindowsIdentity wi = (WindowsIdentity)wp.Identity; WindowsImpersonationContext wic = wi.Impersonate(); // Access the file here wic.Undo();
- D. Use the following code segment to access the file. WindowsIdentity wi = WindowsIdentity.GetCurrent(); WindowsImpersonationContext wic = WindowsIdentity.Impersonate(wi.Token); // Access the file here wic.Undo();

Answer: A,C

Question: 287

You create a Web Form that displays a GridView. The GridView's data source is a DataSet named dsOrders. The DataSet contains two DataTables named Orders and OrderDetails. You create a relation between the two DataTables using the following code segment. (Line numbers are included for reference only.)

You need to find the cause of the exception being raised in line 05.

What should you do?

- A. Ensure that the child column and the parent column have the same names.
- B. Ensure that the child table and the parent table have the same names.
- C. Ensure that the child column and the parent column have the same data types.
- D. Ensure that each row in the child table has a corresponding row in the parent table.
- E. Ensure that the tables have an explicit relationship defined by a foreign key constraint in the database.

Answer: C

Question: 288

You load an XmlDocument named doc with the following XML.

```
<bookstore>
<books>
  <book genre="reference" >
    <title>Dictionary</title>
  </book>
  <book genre="reference" >
    <title>World Atlas</title>
  </book> </books>
</bookstore>
```

You need to change the value for the genre attribute to NA for all book attributes. First, you add the following code segment to your class.

Which additional two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. foreach (XmlNode node in nodes) node.Attributes[0].Value = "NA";}
- B. foreach (XmlNode node in nodes) node.Attributes[1].Value = "NA";)
- C. foreach (XmlNode node in nodes) { XmlNode genre = node.SelectSingleNode("/genre"); genre.Value = "NA";}

D. foreach (XmlNode node in nodes) { XmlNode genre = node.SelectSingleNode("@genre"); genre.Value = "NA"; }
 E. foreach XmlNode node in nodes){ XmlNode genre = node.SelectSingleNode("genre"); genre.Value "NA"; }

Answer: A,D

Question: 289

Your Web site processes book orders. One of the application methods contains the following code segment.

```
doc.LoadXml("<book><discount>10</discount>" +
```

You need to remove the discount element from XmlDocument. Which two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. XmlNode root = doc.DocumentElement; root.RemoveChild(root.FirstChild);
- B. XmlNode root = doc.DocumentElement; root.RemoveChild(root.SelectSingleNode("discount"));
- C. doc.RemoveChild(doc.FirstChild);
- D. doc.DocumentElement.RemoveChild(doc.FirstChild);

Answer: A,B

Question: 290

You create a Web Form. The Web Form uses the FormView control to enable a user to edit a record in the database. When the user clicks the Update button on the FormView control, the application must validate that the user has entered data in all of the fields. You need to ensure that the Web Form does not update if the user has not entered data in all of the fields. Which code segment should you use?

- A. protected void FormView1_ItemUpdating(object sender, FormViewUpdateEventArgs e) { foreach (DictionaryEntry entry in e.Keys) { if (entry.Value.ToString() == System.String.Empty) { e.Cancel = true; return; } } }
- B. protected void FormView1_ItemUpdated(object sender, FormViewUpdatedEventArgs e) { foreach (DictionaryEntry entry in e.NewValues) { if (entry.Value.Equals("")) { e.KeepInEditMode = true; return; } } }
- C. protected void FormView1_ItemUpdating(object sender, FormViewUpdateEventArgs e) { foreach (DictionaryEntry entry in e.NewValues) { if (entry.Value.Equals("")) { e.Cancel = true; return; } } }
- D. protected void FormView1_ItemUpdated(object sender, FormViewUpdatedEventArgs e) { foreach (DictionaryEntry entry in e.Keys) { if (entry.Value.ToString() == System.String.Empty) { e.KeepInEditMode = true; return; } } }

Answer: C

Question: 291

You create a Web Form. The Web Form allows users to calculate values and display the results in a label named lblResults. You need to capture all unhandled exceptions on the Web Form through the Error event. The Error event must capture each unhandled exception and display it on the Web Form. Which code segment should you use?

- A. protected void Page_Error(object sender, EventArgs e) { lblResults.Text = e.ToString(); e=null; }
- B. protected void Page_Error(object sender, EventArgs e) { lblResults.Text = Server.GetLastError().ToString(); Server.ClearError(); }
- C. protected void Page_Error(object sender, EventArgs e) { Response.Write(e.ToString()); e=null }
- D. protected void Page_Error(object sender, EventArgs e) { }

```
Response.Write(Server.GetLastError().ToString());Server.ClearError();}
```

Answer: D

Question: 292

You are creating a mobile Web Form that dynamically displays news items. You want to display news items by using an instance of a mobile Text View control named Text ViewNews. You need to configure the Web Form that contains Text ViewNews. The Web Form must enable pagination in case a users device does not display the full text of a news item. Which code segment should you use?

- A. PagerStyle ps = new PagerStyle();ps.NextPageText = "more >";ps. PreviousPageText = "< back";FormNews.Paginate = true
- B. FomiNews.PagerStyle.NextPageText = "more >";FormNews.PagerStyle.PreviousPageText = "< back";Text ViewNews.PaginateRecursive(new Control Pager(FornNews, 1000));
- C. FormNews.PagerStyleNextPageText = "more >";FormNews.PagerStyle.PreviousPageText = "< back";FormNews.PaginateRecursive(new Control Pager(FormNews, 1000));
- D. FormNews. PagerStyle.NextPageText = "more >";FormNews.PagerStyle.PreviousPageText = "< back";FormNcws.Paginate = true;

Answer: D

Question: 293

You define a composite control to capture a user's date. You use following class decleration.

```
Public class DateOfBirth : CompositeControl {  
}
```

You need to ensure that the Web control supports templates.

Which four code segments should use? (Select four. Each is a part of the solution.)

Answer: Pending.Send your suggestion to feedback@Testkingonline.com

Question: 294

You are developing a Web application. The Web application restricts access to an administrative page. The Web application uses the following code segment to protect the page.

```
if (Page.User.Identity.Name != @"CONTOSO\Administrator") {  
Response.Redirect("login.aspx");}
```

You are logged on as Administrator. When you display the page, you are redirected to Login.aspx. You discover that the User.Identity.Name property is not being correctly populated. You need to ensure that you can access the page when you are logged on as Administrator. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. In the Web.config file, enable impersonation.
- B. In IIS, enable anonymous access.
- C. In IIS, disable anonymous access.
- D. In the Web.config file, set the authentication mode to Windows.

Answer: C,D

Question: 295

You write a Web application. This application must support multiple languages. You store the localized strings in the application as resources. You want these resources to be accessed according to a users language preference. You create the following resource files in the

App_GlobalResources folder of your application.
myStrings.resxmyStrings.en-CA.resxmyString.en-US.resxmyStrings.fr-CA.resxmyStrings.es-MX.resx Each resource file stores a localized version of the following strings: Name, E-mail, address, and Phone. You create a Web Form that contains one label for each of these strings. You need to ensure that the correct localized version of each string is displayed in each label, according to a users language preference. What should you do?

- A. Add the following configuration section to the Web.config file. <globalization culture="Auto" />
- B. Set the directive for each page in your site as follows: <%@ Page UICulture="Auto" %>
- C. Add the following code segment to the pages load event. lblName.Text = "{myStrings}Name" lblAddress.Text = "{myStrings}Address" lblEmail.Text = "{myStrings}Email" lblPhone.Text = "{myStrings}Phone"
- D. Add the following code segment to the pages load event. lblName.Text = Resources.myStrings.Name lblAddress.Text = Resources.myStrings.Address lblEmail.Text = Resources.myStrings.Email lblPhone.Text = Resources.myStrings.Phone

Answer: D

Question: 296

You create a master page named PageBase.master. The master page contains a Label control named lblTitle. You create a content page that references the master page. You need to change the Text property of the master page's lblTitle control from the content page. Which code segment should you use?

- A. Dim lblTitle As Label = Master.FindControl("lblTitle")lblTitle.Text = "Articles"
- B. Dim lblTitle As Label = Parent.FindControl("lblTitle")lblTitle.Text = "Articles"
- C. Master.Page.Title = "Articles"
- D. CType(Page.FindControl("lblTitle"), Label).Text = "Articles"

Answer: A

Question: 297

You create a Web Form. The Web Form uses the FormView control to enable a user to edit a record in the database. When the user clicks the Update button on the FormView control, the application must validate that the user has entered data in all of the fields. You need to ensure that the Web Form does not update if the user has not entered data in all of the fields. Which code segment should you use?

- A. Protected Sub FormView1_ItemUpdating(ByVal sender As Object, _ ByVal e As System.Web.UI.WebControls.FormViewUpdateEventArgs) _ Handles FormView1.ItemUpdating
Dim entry As DictionaryEntry

```
For Each entry In e.Keys
If entry.Value.ToString() = System.String.Empty Then
e.Cancel = True
Return
End If
Next entry
End Sub
B. Protected Sub FormView1_ItemUpdated(ByVal sender As Object, _ ByVal e As System.Web.UI.WebControls.FormViewUpdatedEventArgs) _ Handles FormView1.ItemUpdated
```

```

Dim entry As DictionaryEntry
For Each entry In e.NewValues
If entry.Value.Equals("") Then
e.KeepInEditMode = True
Return
End If
Next entry
End Sub
C. Protected Sub FormView1_ItemUpdating(ByVal sender As Object, _ ByVal e As
System.Web.UI.WebControls.FormViewUpdateEventArgs) _ Handles
FormView1.ItemUpdating
Dim entry As DictionaryEntry
For Each entry In e.NewValues
If entry.Value.Equals("") Then e.Cancel = True
Return
End If Next entryEnd Sub
D. Protected Sub FormView1_ItemUpdated(ByVal sender As Object, _ ByVal e As
System.Web.UI.WebControls.FormViewUpdatedEventArgs) _ Handles
FormView1.ItemUpdated
Dim entry As DictionaryEntry
For Each entry In e.Keys
If entry.Value.ToString() = System.String.Empty Then
e.KeepInEditMode = True
Return
End If
Next entry
End Sub

```

Answer: C

Question: 298

You load an XmlDocument named doc with the following XML.

```

<bookstore>
<books>
<book>
<title>World Atlas</title>
</book>
<book>
<title>Dictionary</title>
</book>
</books>
</bookstore>

```

You need to use an XPath query string to select the two book nodes. Which code segment should you use?

- A. Dim root As XmlElement = doc.DocumentElementDim nodes As XmlNodeList = root.SelectNodes(".")
- B. Dim root As XmlElement = doc.DocumentElementDim nodes As XmlNodeList = root.SelectNodes("book")
- C. Dim root As XmlElement = doc.DocumentElementDim nodes As XmlNodeList = root.SelectNodes("bookstore//book")
- D. Dim root As XmlElement = doc.DocumentElementDim nodes As XmlNodeList = root.SelectNodes("books/book")

Answer: D

Question: 299

You have an SQL query that takes one minute to execute. You use the following code segment to execute the SQL query asynchronously. Dim ar As IAsyncResult = cmd.BeginExecuteReader() You need to execute a method named DoWork() that takes one second to run while the SQL query is executing. DoWork() must run as many times as possible while the SQL query is executing. Which code segment should you use?

- A. While ar.AsyncWaitHandle.IsNothing DoWork()End While dr = cmd.EndExecuteReader(ar)
- B. While Not ar.IsCompleted DoWork()End While dr = cmd.EndExecuteReader(ar)
- C. While Thread.CurrentThread.ThreadState = ThreadState.Running DoWork()End While dr = cmd.EndExecuteReader(ar)
- D. While Not ar.AsyncWaitHandle.WaitOne() DoWork()End While dr = cmd.EndExecuteReader(ar)

Answer: B

Question: 300

You are creating a DataTable. You use the following code segment to create the DataTable. (Line numbers are included for reference only.)

```
01 Dim dt As New DataTable("Products")
02 dt.Columns.Add(New DataColumn("Price", _ GetType(Decimal)))
03 dt.Columns.Add(New DataColumn("Quantity", _ GetType(Int32)))
04 Dim dc As DataColumn = New DataColumn("Total", _ GetType(Decimal))
05 dt.Columns.Add(dc)
```

You need to ensure that the Total column is set to the value of the Price column multiplied by the Quantity column when new rows are added or changed. What should you do?

- A. Add the following code segment after line 05. dc.ExtendedProperties("Total") = "Price * Quantity"
- B. Add the following code segment after line 05. dc.Expression = "Price * Quantity"
- C. Write an event handler for the DataTable's TableNewRow event that updates the row's Total.
- D. Write an event handler for the DataTable's ColumnChanged event that updates the row's Total.

Answer: B

Question: 301

You are creating a mobile Web Form that dynamically displays news items. You want to display news items by using an instance of a mobile TextView control named TextViewNews. You need to configure the Web Form that contains TextViewNews. The Web Form must enable pagination in case a user's device does not display the full text of a news item. Which code segment should you use?

- A. Dim ps As PagerStyle = New PagerStyle() ps.NextPageText = "more >" ps.PreviousPageText = "< back" FormNews.Paginate = True
- B. FormNews.PagerStyle.NextPageText = "more >" FormNews.PagerStyle.PreviousPageText = "< back" TextViewNews.PaginateRecursive(New ControlPager(FormNews, 1000))
- C. FormNews.PagerStyle.NextPageText = "more >" FormNews.PagerStyle.PreviousPageText = "< back" FormNews.PaginateRecursive(New ControlPager(FormNews, 1000))

D. FormNews.PagerStyle.NextPageText = "more >"FormNews.PagerStyle.PreviousPageText = "< back"FormNews.Paginate = True

Answer: D

Question: 302

You create a Web Form. The Web Form allows users to calculate values and display the results in a label named lblResults. You need to capture all unhandled exceptions on the Web Form through the Error event. The Error event must capture each unhandled exception and display it on the Web Form. Which code segment should you use?

- A. Protected Sub Page_Error(ByVal sender As Object, _ ByVal e As System.EventArgs)
Handles Me.Error lblResults.Text = e.ToString() e = NothingEnd Sub
- B. Protected Sub Page_Error(ByVal sender As Object, _ ByVal e As System.EventArgs)
Handles Me.Error lblResults.Text = Server.GetLastError().ToString() Server.ClearError()End Sub
- C. Protected Sub Page_Error(ByVal sender As Object, _ ByVal e As System.EventArgs)
Handles Me.Error Response.Write(e.ToString()) e = NothingEnd Sub
- D. Protected Sub Page_Error(ByVal sender As Object, _ ByVal e As System.EventArgs)
Handles Me.Error Response.Write(Server.GetLastError().ToString()) Server.ClearError()End Sub

Answer: D

Question: 303

You create a Web site that is for members only. The Web site allows members to create lists of users that have access to information about member profiles. The name of the list is stored in the listName variable. The user name of the user to whom access is given is stored in the username variable. You need to enable members to manage their lists of users. Which code segment should you use?

- A. Roles.CreateRole(listName)User.IsInRole(listName)
- B. Roles.CreateRole(listName)Roles.AddUserToRole(username, listName)
- C. Roles.RoleExists(listName)Roles.AddUserToRole(username, listName)
- D. Roles.RoleExists(listName)User.IsInRole(listName)

Answer: B

Question: 304

You create a Web Form that displays a GridView. The GridView's data source is a DataSet named dsOrders. The DataSet contains two DataTables named Orders and OrderDetails. You

create a relation between the two DataTables using the following code segment. (Line numbers are included for reference only.)

```
01 dtOrders = dsOrders.Tables("Orders")
02 dtOrderDetails = dsOrders.Tables("OrderDetails")
03 colParent = dtOrders.Columns("OrderID")
04 colChild = dtOrderDetails.Columns("ParentOrderID")
05 dsOrders.Relations.Add("Rel1", colParent, colChild, False)
```

You need to find the cause of the exception being raised in line 05. What should you do?

- A. Ensure that the child column and the parent column have the same names.
- B. Ensure that the child table and the parent table have the same names.

- C. Ensure that the child column and the parent column have the same data types.
- D. Ensure that each row in the child table has a corresponding row in the parent table.
- E. Ensure that the tables have an explicit relationship defined by a foreign key constraint in the database.

Answer: B

Question: 305

You are creating a Web Form. You write the following code segment to create a SqlCommand object. Dim conn As SqlConnection = New SqlConnection(connString)conn.Open()Dim cmd As SqlCommand = conn.CreateCommand()cmd.CommandText = "select count(*) from Customers" You need to display the number of customers in the Customers table. Which two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Dim customerCount As Object = cmd.ExecuteScalar() lblCompanyName.Text = customerCount.ToString()
- B. Dim customerCount As Integer = cmd.ExecuteNonQuery() lblCompanyName.Text = customerCount.ToString()
- C. Dim dr As SqlDataReader = cmd.ExecuteReader()dr.Read() lblCompanyName.Text = dr(0).ToString()
- D. Dim dr As SqlDataReader = cmd.ExecuteReader()dr.Read() lblCompanyName.Text = dr.ToString()

Answer: A,C

Question: 306

You load an XmlDocument named doc with the following XML.

```
<bookstore>
<books>
<book genre="reference" >
<title>Dictionary</title>
</book>
<book genre="reference" >
<title>World Atlas</title> <
/book>
</books>
</bookstore>
```

You need to change the value for the genre attribute to NA for all book attributes. First, you add the following code segment to your class. Dim root As XmlElement = doc.DocumentElementDim nodes As XmlNodeList = root.SelectNodes("books/book") Which additional two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Dim node As XmlNodeFor Each node In nodes node.Attributes(0).Value = "NA"Next node
- B. Dim node As XmlNodeFor Each node In nodes node.Attributes(1).Value = "NA"Next node
- C. Dim node As XmlNodeFor Each node In nodes Dim genre As XmlNode = node.SelectSingleNode("/genre") genre.Value = "NA"Next node
- D. Dim node As XmlNodeFor Each node In nodes Dim genre As XmlNode = node.SelectSingleNode("@genre") genre.Value = "NA"Next node
- E. Dim node As XmlNodeFor Each node In nodes Dim genre As XmlNode = node.SelectSingleNode("genre") genre.Value = "NA"Next node

Answer: A,D

Question: 307

Your Web site processes book orders. One of the application methods contains the following code segment. Dim doc As New XmlDocument()doc.LoadXml("<book><discount>10</discount>" & "<title>Dictionary</title></book>") You need to remove the discount element from XmlDocument. Which two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Dim root As XmlNode = doc.DocumentElementroot.RemoveChild(root.FirstChild)
- B. Dim root As XmlNode = doc.DocumentElementroot.RemoveChild(root.SelectSingleNode("discount"))
- C. doc.RemoveChild(doc.FirstChild)
- D. doc.DocumentElement.RemoveChild(doc.FirstChild)

Answer: A,B

Question: 308

You develop a Web application that writes data to a file on a server. You restrict access to the file to specific Windows users. The Web application runs as CONTOSO\ASPNET. You deny anonymous access to the application in IIS. You add the following XML segment in the Web.config file. <authentication mode="Windows"/> You need to ensure that the application meets the following requirements: It must impersonate the user when it writes data to the file. It must run as CONTOSO\ASPNET when a user does not access the file. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Use the following XML segment in the Web.config file. <identity impersonate="false"/>
- B. Use the following XML segment in the Web.config file. <identity impersonate="true"/>
- C. Use the following code segment to access the file. Dim wp As WindowsPrincipal = CType(HttpContext.Current.User, WindowsPrincipal) Dim wi As WindowsIdentity = WindowsIdentity.GetCurrent() Dim wic As WindowsImpersonationContext = wi.Impersonate()' Access the file herewic.Undo()
- D. Use the following code segment to access the file. Dim wi As WindowsIdentity = WindowsIdentity.GetCurrent() Dim wic As WindowsImpersonationContext = wi.Impersonate()' Access the file herewic.Undo()

Answer: A,C

Question: 309

You are working on an existing Web site. You need to secure the Web site by redirecting all users to the logon page, Login.aspx. After logging on, users must be sent back to the page that they originally requested. Which code segment should you use?

- A. In the Web.config file: <authorization> <deny users="*" /></authorization> On each page in the Web site: Protected Sub Page_Load(ByVal sender As Object, _ ByVal e As System.EventArgs) Handles Me.Load FormsAuthentication.Initialize() End Sub
- B. On each page in the Web site: Protected Sub Page_Load(ByVal sender As Object, _ ByVal e As System.EventArgs) Handles Me.Load FormsAuthentication.RedirectToLoginPage("login.aspx") End Sub
- C. On each page in the Web site: Protected Sub Page_Load(ByVal sender As Object, _ ByVal e As System.EventArgs) Handles Me.Load Response.Redirect("login.aspx") End Sub
- D. In the Web.config file: <authentication mode="Forms"> <forms name=".ASPXUSERDEMO" loginUrl="login.aspx" protection="All" timeout="60" /></authentication>

Answer: D

Question: 310

You are developing a Web application. The Web application restricts access to an administrative page. The Web application uses the following code segment to protect the page.

```
If Page.User.Identity.Name <> "CONTOSO\Administrator" Then  
Response.Redirect("login.aspx")  
End If
```

You are logged on as Administrator. When you display the page, you are redirected to Login.aspx. You discover that the User.Identity.Name property is not being correctly populated. You need to ensure that you can access the page when you are logged on as Administrator. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. In the Web.config file, enable impersonation.
- B. In IIS, enable anonymous access.
- C. In IIS, disable anonymous access.
- D. In the Web.config file, set the authentication mode to Windows.

Answer: C,D