Exam Questions 70-316

MCAD .NET Developing and Implementing Windows-based Applications with Microsoft Visual C# .NET
1. You develop a contact management application that will enable users to retrieve information from a central database. After the data is returned to your application, users must be able to view it, edit it, add new records, and delete existing records. All user changes must then be saved in the database. Your application design requires several ADO.NET objects to work together to accomplish these requirements. You use classes from the System.Data and System.Data.OleDb namespaces. First you write the code to connect to the database. Which four actions should you take next? (Each correct answer presents part of the solution. Choose four.)

A. Create an OleDbDataAdapter object and define the SelectCommand property.
B. Create an OleDbCommand object and use the ExecuteScalar method.
C. Create a DataTable object as a container for the data.
D. Create a DataSet object as a container for the data.
E. Call the DataAdapter.Fill method to populate the DataSet object.
F. Call the DataAdapter.Update method to populate the DataSet object.
G. Call the DataAdapter.Update method to save changes to the database.
H. Call the DataSet.AcceptChanges method to save changes to the database.

Answer: A,D,E,G

2. You develop a Windows-based application that stores and retrieves data in a Microsoft SQL Server database. Your application uses ADO.NET and the SqlClient managed provider. You need to identify the severity level of all errors returned from SQL Server. What should your error-handling code do?

A. Catch the SqlException that is thrown when the error occurs and access the Source property.
B. Catch the SqlException that is thrown when the error occurs and access the Class property.
C. Examine the State property of the SqlConnection object for the status of the connection after the error occurs.
D. Examine the DataSource property of the SqlConnection object for the status of the connection after the error occurs.

Answer: B

3. You use Visual Studio .NET to create a Windows Service application. You compile a debug version and install it on your computer, which runs Windows 2000 Server. You start the application from the Windows 2000 Service Control Manager. Now you need to begin debugging it within Visual Studio .NET. What should you do?

A. Add a reference to the application within Visual Studio .NET. Add breakpoints to the code. Invoke the breakpoints by sending Stop, Pause, and Continue commands from the Service Control Manager.
B. Select Processes from the Debug menu and attach the debugger to your application.
C. Place a breakpoint in the OnStart method of the application and then run it.
D. Place a breakpoint in the Main procedure of the application and then run it.

Answer: B

4. You develop a Windows-based application that uses several functions to calculate a given inventory quantity. This quantity is stored in a variable named IQuantity. When you test your application, you discover that the value of IQuantity sometimes falls below zero. For debugging purposes, you want your application to generate an error message in such cases. You also want to be able to view the call stack to help identify the function call that is causing the miscalculation. You need to insert additional code after the calculation of IQuantity. Which code segment should you use?

A. Trace.Assert(IQuantity >= 0, "Inventory cannot be less than zero.");
B. Trace.Assert(IQuantity < 0, "Inventory cannot be less than zero.");
C. Trace.Fail(IQuantity >= 0, "Inventory cannot be less than zero.");
D. Trace.WriteLineIf(IQuantity < 0, "Inventory cannot be less than zero.");

Answer: A

5. You develop a Windows-based application that enables users to enter product sales. You add a subroutine named CalculateTax.

You discover that CalculateTax sometimes raises an IOException during execution. To address this problem, you create two additional subroutines named LogError and CleanUp. These subroutines are governed by the following rules:

LogError must be called only when CalculateTax raises an exception.
CleanUp must be called whenever CalculateTax is complete.

You must ensure that your application adheres to these rules. Which code segment should you use?
A. try {
    CalculateTax();
    LogError();
}
    catch (Exception e) {
    CleanUp(e);
}
B. try {
    CalculateTax();
}
    catch (Exception e) {
    LogError(e);
    CleanUp();
}
C. try {
    CalculateTax();
}
    catch (Exception e) {
    LogError(e);
}
    finally {
    CleanUp();
}
D. try {
    CalculateTax();
}
    catch (Exception e) {
    CleanUp(e);
}
    finally {
    LogError();
}
Answer: C

6. Your company assigns you to modify a Visual Studio .NET application that was created by a former colleague. However, when you try to build the application, you discover several syntax errors. You need to correct the syntax errors and compile a debug version of the code so the application can be tested. Before compiling, you want to locate each syntax error as quickly as possible. What should you do?

A. Select each error listed in the Task List window.
B. Open the Application event log from the Visual Studio .NET Server Explorer window. Select each error listed.
C. Run the application in Debug mode. Each time an error is encountered, correct it and continue debugging the application.
D. Select Build Solution from the Build menu. When the build fails, correct each error listed in the Output window.
E. Select Build Comment Web Pages from the Tools menu. Select each function listed in the report that is generated.
7. You use Visual Studio .NET to develop a Windows-based application. Your application will display customer order information from a Microsoft SQL Server database. The orders will be displayed on a Windows Form in a data grid named DataGrid1. DataGrid1 is bound to a DataView object. The Windows Form includes a button control named displayBackOrder. When users click this button, DataGrid1 must display only customer orders whose BackOrder value is set to True. How should you implement this functionality?

A. Set the RowFilter property of the DataView object to "BackOrder = True".
B. Set the RowStateFilter property of the DataView object to "BackOrder = True".
C. Set the Sort property of the DataView object to "BackOrder = True".
D. Set the ApplyDefaultSort property of the DataView object to True.

Answer: A

8. You use the .NET Framework to develop a new Windows-based application. The application includes a COM component that you created. Company policy requires you to sign the interop assembly with a strong name. However, issues of company security require that you delay signing the assembly for one month. You need to begin using the application immediately on a pilot basis. You must achieve your goal with the least possible effort. What should you do?

A. Create a reference to the COM component through the Visual Studio .NET IDE.
B. Create the interop assembly by using the Type Library Importer (Tlbimp.exe).
C. Create the interop assembly by using the TypeLibConverter class in the System.Runtime.InteropServices namespace.
D. Create a custom wrapper by creating a duplicate definition or interface of the class in managed source code.

Answer: B

9. You develop a Windows Form that provides online help for users. You want the help functionality to be available when users press the F1 key. Help text will be displayed in a pop-up window for the text box that has focus. To implement this functionality, you need to call a method of the HelpProvider control and pass the text box and the help text. Which method should you call?

A. SetShowHelp
B. SetHelpString
C. SetHelpKeyword
D. ToString

Answer: B

10. You are a developer for a company that provides free software over the Internet. You are developing an e-mail application that users all over the world can download. The application displays text strings in the user interface. At run time, these text strings must appear in the language that is appropriate to the locale setting of the computer running the application. You have resources to develop versions of the application for only four different cultures. You must ensure that your application will also be usable by people of other cultures. How should you prepare the application for deployment?

A. Package a different assembly for each culture.
B. Package a different executable file for each culture.
C. Package a main assembly for source code and the default culture. Package satellite assemblies for the other cultures.
D. Package a main assembly for source code. Package satellite assemblies for each culture.

Answer: C

11. You use Visual Studio .NET to create a Windows-based application. The application includes a form named StandardOperatingProcedures (SOP). SOP allows users to enter very lengthy text into a database. When users click the Print button located on SOP, this text must be printed by the default printer. You implement the printing functionality by using the native .NET System Class Libraries with all default settings. Users report that only the first page of the text is being printed. How should you correct this problem?

A. In the BeginPrint event, set the HasMorePages property of the PrintEventArgs object to True.
B. In the EndPrint event, set the HasMorePages property of the PrintEventArgs object to True.
C. In the PrintPage event, set the HasMorePages property of the PrintPageEventArgs object to True.
D. In the QueryPageSettings event, set the HasMorePages property of the QueryPageSettingEventArgs object to True.

Answer: C

12. Your project team uses Visual Studio .NET to create an accounting application. Each team member uses the Write method of both the Debug class and the Trace class to record information about application execution in the Windows 2000 event log. You are performing integration testing for the application. You need...
to ensure that only one entry is added to the event log each time a call is made to the Write method of either the Debug class or the Trace class. What are two possible code segments for you to use? (Each correct answer presents a complete solution. Choose two.)

A. EventLogTraceListener myTraceListener = new EventLogTraceListener("myEventLogSource"); Trace.Listeners.Add(myTraceListener);
B. EventLogTraceListener myDebugListener = new EventLogTraceListener("myEventLogSource"); Debug.Listeners.Add(myDebugListener);
C. EventLogTraceListener myTraceListener = new EventLogTraceListener("myEventLogSource"); Debug.Listeners.Add(myTraceListener); Trace.Listeners.Add(myTraceListener);
D. EventLogTraceListener myDebugListener = new EventLogTraceListener("myEventLogSource"); EventLogTraceListener myTraceListener = new EventLogTraceListener("myEventLogSource"); Debug.Listeners.Add(myDebugListener); Trace.Listeners.Add(myTraceListener);

Answer: A,B

13. You use Visual Studio .NET to create an application that uses an assembly. The assembly will reside on the client computer when the application is installed. You must ensure that any future applications installed on the same computer can access the assembly. Which two actions should you take? (Each correct answer presents part of the solution. Choose two.)

A. Use XCOPY to install the assembly in the global assembly cache.
B. Use XCOPY to install the assembly in the Windows\Assembly folder.
C. Create a strong name for the assembly.
D. Precompile the assembly by using the Native Image Generator (Ngen.exe).
E. Modify the application configuration file to include the assembly.
F. Use a deployment project to install the assembly in the global assembly cache.
G. Use a deployment project to install the assembly in the Windows\System32 folder.

Answer: C,F

14. You use Visual Studio .NET to create a Windows-based application. The application includes a form named ConfigurationForm. ConfigurationForm contains 15 controls that enable users to set basic configuration options for the application. You design these controls to dynamically adjust when users resize ConfigurationForm. The controls automatically update their size and position on the form as the form is resized. The initial size of the form should be 650 x 700 pixels.

If ConfigurationForm is resized to be smaller than 500 x 600 pixels, the controls will not be displayed correctly. You must ensure that users cannot resize ConfigurationForm to be smaller than 500 x 600 pixels.

Which two actions should you take to configure ConfigurationForm? (Each correct answer presents part of the solution. Choose two.)

A. Set the MinimumSize property to "500,600".
B. Set the MinimumSize property to "650,700".
C. Set the MinimizeBox property to True.
D. Set the MaximumSize property to "500,600".
E. Set the MaximumSize property to "650,700".
F. Set the MaximizeBox property to True.
G. Set the Size property to "500,600".
H. Set the Size property to "650,700".

Answer: A,H

15. Another developer in your company uses Visual Studio .NET to create a component named MyComponent. You deploy MyComponent to a server. When you execute MyComponent, you receive the following error message: "System.Security.Policy.PolicyException: Failed to acquire required permissions." As quickly as possible, you need to discover which permissions are required by MyComponent. What should you do?

A. Request the source code from the developer who created MyComponent. Examine the source code to find the required permissions.
B. Run the Microsoft CLR Debugger (DbgCLR.exe) on the server to view the permissions requested by the application at run time.
C. Run the Runtime Debugger (Cordbg.exe) on the server to view the permissions requested by the application at run time.
D. Run the Permissions View tool (Permview.exe) on the server to view the permissions required by MyComponent.
E. Run the MSIL Disassembler (ildasm.exe) on the server to view permission requests by MyComponent that were denied.

Answer: D
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