

Exam 70-316 study material

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Free 70-316 Exam Preparation Questions

Exam 70-316: Developing and Implementing Windows-based Applications with Microsoft Visual C# .NET

Question: 1.

You use Visual Studio .NET to develop a Windows-based application named Fabrics Co Customer Relationship Manager (FCRM). ARA contains a class named Client. The client class is defined by the following code segment:

```
Namespace FabricsCo.BusinessLayerPublic Class Customer {Public String GetPhone(Integer customerID){'More code goes here.'Other functions go here.}}
```

The Customer class is invoked from FCRM by using the following code segment:

```
Public Class CustomerForm : System.Windows.Forms.FormPrivate SetPhoneNumber(String PostalCode){Customer customer = New Customer();TextBox1.Text = customer.GetPhone(postalCode);}End Class
```

When you try to build your project, you receive the following error message: "Type 'Customer' is notdefined." What should you do? (Select the best answer.)

- A. Fully qualify the Customer class with the FabricsCo.BusinessLayer.class namespace.
- B. Fully qualify the Customer class with FCRM namespace.
- C. Fully qualify the Customer class with BusinessLayer namespace.
- D. Import the FabricsCo.BusinessLayer namespace in the Customer Form class.
- E. Inherit the FabricsCo.BusinessLayer namespace in the Customer Form class.
- F. Declare the customer object variable by using the With Events keyword.
- G. Declare the customer object variable by using the Implements keyword.

Answer: D

Explanation:

We could import the FabricsCo.BusinessLayer namespace by creating an alias:Imports customer = FabricsCo.BusinessLayer.Customer

Question: 2.

You develop a Windows-based application that includes the following code segment. (Line numbers are included for reference only.)

```
01 Public CreditCard_Validating (Object sender _ 02 , System.ComponentModel.CancelEventArgs e _03 ){ 04 Handles CreditCard.Validating 05 If !ValidCreditCard() { 06 'Insert new code. 07 } 08 }
```

You must ensure that users cannot move control focus away from textCreditCard if ValidCreditCard returns a value of False. You will add the required code on line 6. Which code segment should you use?

- A. sender = textName
- B. CreditCard.AcceptsTab = False
- C. e.Cancel = True
- D. CreditCard.CausesValidation =False

Answer: C

Explanation:

We simply use cancel to cancel the validation of the control.

Question: 3.

You use Visual Studio .NET to develop a Windows-based application for Bank Managers to access accounting and loan information. Normally, only accounting executives have rights to view and modify accounting information. Loans executive officers have similar rights to loans data. You implement security by using the security classes of the .NET Framework. Your application includes the following procedure. (Line numbers are included for reference only)

```
01 Public ApproveVacation(String user1, - 03 string role1, ByVal, String user2, _ 04 String role2) { 05 PrincipalPermission PrincipalPerm1 = _ 06 New PrincipalPermission(LoanExec, role1)07 PrincipalPermission principalPerm2 = _ 08 New
```

```
PrincipalPermission(AccountingExec, role2)09 'Insert new code. 10 'Additional procedure code goes here11 }
```

You must ensure that both the user has both LoanExec and AccountingExec security roles. Which code segment should you insert on line 8?

- A. `principalPerm1.IsUnrestricted principalPerm2.IsUnrestricted`
- B. `principalPerm1.IsSubSetOf(principalPerm2)`
- C. `principalPerm1.Intersect(principalPerm2).Demand()`
- D. `principalPerm1.Union(principalPerm2).Demand()`

Answer: C

Explanation:

Intersect will return us security roles of both.

Question: 4.

You are creating a localized version of a Windows Form Dictionary application named ESDictionary. Primary users of ESDictionary speak a language that prints text from right to left. You must meet their needs and apply proper format when the localized Windows Form runs. Operational requirements states that you must also ensure that ESDictionary is easy to update and maintain. What should you do?

- A. Set the Right To Left property of each control on the form to Yes.
- B. Set the Language property of the form to the appropriate language.
- C. Set the Localizable property of the form to True.
- D. Set the Right To Left property of the form to Yes.

Answer: D

Explanation:

The Right To Left property is used for international applications where the language is written from right to left

Question: 5.

Which of the following methods are not methods of the OleDbCommand class? (Select all choices that are correct.)

- A. Create Parameter
- B. Update
- C. BeginTransaction
- D. Fill
- E. ExecuteScalar
- F. Close
- G. Cancel

Answer: B, C, D, F

Explanation:

The Cancel method attempts to stop a command from running. The ExecuteScalar method returns a single value, typically from a stored procedure or query, such as the sum, average or count of a set of data. The Create Parameter method instantiates a new parameter object. The Fill and Update methods are methods of the DataAdapter class. The Close, Update and BeginTransaction methods are methods of the Connection class.

Question: 6.

You are a .Net programmer for XYZ. Your .Net application is about to approach the stabilizing phase. Your team leader instructs you to perform the following: . • All users in your company must use the same version of the software

- You must minimize the time need to install the software when new setup programs are released. How can you most easily accomplish these goals? (Select the best choice.)
- Install the application on the network. Create a client install project that will place a shortcut to the network

application on each user's desktop.

- Create a Merge Module type setup file, and place it on the network. Place a shortcut to the Merge Module on each user's desktop.
- Send to your users an e-mail message that includes the setup files each time that you rebuild the file.
- Create a Web setup file, and place it on the corporate intranet. Send an e-mail message to your users whenever you update the setup file so that they can update the installation on their local computers.

Answer: A

Explanation:

To simplify version control for your .NET application and to minimize installation time for the application, you should install the .NET application to the network and create a client install project that will place a shortcut to the application on each user's desktop. By placing the executable files on the network, you ensure that all users are running the same version of the software. In addition, you only have to install the application once each time a new version is released. You should not rely on your users to install the application updates because the users might not install the most recent version. Merge modules can only be used from within other setup applications; therefore, merge modules cannot be executed from a shortcut.

Question: 7.

You use Visual Studio .NET to create a Windows Form application used by hotel executives to book flights for hotel customers. Your application contains classes to calculate airport taxes based on regions and cities. These classes are defined in the following code segment. (Line numbers are included for reference only.)

```
01 Public Class Region {
02 Public Overridable CalculateAirportTax(){
03 'Code to calculate tax goes here.
04 }
05 }
06 Public Class City : Region
07 {
08 Public Overrides CalculateAirportTax() {
09 'Insert new code.
10 }
11 }
```

You need to add code to the CalculateAirportTax method of the City class to call the CalculateAirportTax method of the Region class. Which code segment should you add on line 9?

- A. MyBase.CalculateAirportTax();
- B. CalculateAirportTax();
- C. Me.CalculateAirportTax();
- D. MyClass.CalculateAirportTax();

Answer: A

Explanation:

The My Base keyword to call methods in a base class when overriding methods in a derived class.

Question: 8.

You use Visual Studio .NET to create a component ESSchedulingComponent that will be shared by two client applications. Your superior, Bill, gives you these requirements:

- He plans to deploy new version of ESSchedulingComponent.
- Not all of the new versions will be compatible with both client applications.
- When ESSchedulingComponent is deployed you must ensure that you can upgrade the ESSchedulingComponent for a single client application.
- You must also minimize the need for configuration changes.

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

- A. Create a strong name of ESSchedulingComponent and specify a version number. Compile each client application and bind it to ESSchedulingComponent. Deploy each client application to its own folder. When you deploy a new version of ESSchedulingComponent, increment its version number.
- B. Deploy each client application to its own folder. Deploy ESSchedulingComponent to its own folder. Register ESSchedulingComponent by using RegSvr32 with the /s option.
- C. Deploy each client application to its own folder. Deploy a separate copy of ESSchedulingComponent to each client application folder. When you deploy a new version of ESSchedulingComponent, replace the older version only if the new version remains compatible with the client application in the same folder.
- D. Compile the client applications with reference to ESSchedulingComponent. Deploy both client applications and ESSchedulingComponent to a single folder. When you deploy a new version of ESSchedulingComponent, increment its version number.
- E. Create a strong name of ESSchedulingComponent and specify a version number. Compile each client application and bind it to ESSchedulingComponent. Deploy ESSchedulingComponent to the global assembly cache on the client computer. Deploy each client application to its own folder. When you deploy a new version of ESSchedulingComponent, increment its version number.

Answer: C, E

Explanation:

- C: We keep two separate copies of the shared component. And we only replace the shared copy of the component if compatibility is still maintained.
- E: You can install multiple versions of the same assembly to the Global Assembly Cache, and applications can locate and use the appropriate version.

Question: 9.

You are working on a Web Application at Silva Inc. You discover that the stored procedure's parameters have been changed. The database administrator is on medical leave. Which of the following methods should you use to determine which stored procedures have parameters that no longer match the parameters that you have already established in your code? (Select the best choice.)

- A. SqlDataReader.GetName
- B. DataAdapter.FillSchema
- C. SqlCommandBuilder.RefreshSchema
- D. SqlCommandBuilder.DeriveParameters

Answer: D

Explanation:

The Derive Parameters method of the SqlCommandBuilder class allows you to retrieve the parameters of stored procedures. You could compare the parameters that are returned by Derive Parameters against the parameters in existing code to see if they match. The GetName method of the SqlDataReader class returns the name of a column at a specified index. The Refresh Schema method is used when the underlying query of a SqlCommandBuilder object changes in order to update the database schema information.

Question: 10.

You use Visual Studio .NET to develop a Microsoft Windows-based application. Your application contains a form named Customer Form to enter time sheet entries for a law firm. At design time you set the Data Bindings properties of each TextBox control to the appropriate column in the DataTable object of Customer DataSet. When the application runs, users must be able to edit the information displayed in the text boxes. All user changes must be saved to the appropriate database when save Button is executed. The event handler for btnSave includes the following code segment:
DataAdapter.Update(CustomerDataSet) You application fails to work correctly. BtnSave fails to save any values edited in the text boxes. You need to correct this problem. What should your application do?

- A. Call the InsertCommand method of the DataAdapter.
- B. Before calling the Update method, ensure that a row position change occurs in CustomerDataSet.
- C. Reestablish the database connection by calling the Open method of the Connection.

D. CALL THE Update method of the DataAdapter and pass in the Connection.

Answer: D

Explanation:

We must specify the Data Source as well. The Data Source is specified with the SqlConnection object. We should issue the following command:

Question: 11.

You are creating a Windows Form application for store highly sensitive company data. You have configured a permission set that grants any application the maximum level of security to meet the operational requirement. You want to ensure that no other security settings can be used to grant more permissions than those contained in this set. Which of the following actions should you perform to accomplish your goal? (Select the best choice.)

- A. Use the Caspol utility to set the Level Final attribute on your default permission set.
- B. Use the Perm view utility to set the Level Final attribute on your default permission set.
- C. Use the Perm view utility to set the Exclusive attribute on your default permission set.
- D. Use the Caspol utility to set the Exclusive attribute on your default permission set.

Answer: D

Explanation:

To ensure that no other security settings can be used to grant more permissions than those contained in the set that you have configured, you should use the Caspol utility to set the Exclusive attribute on your default permission set. The Caspol utility is used to view and modify security information. Setting the Exclusive attribute on a permission set defines the maximum security settings that are permissible at that policy level. No other permissions set can grant permissions that are not granted by this set. The Level Final attribute prevents any policy level other than the application domain level below a particular policy level from having any effect.

When the Level Final attribute is applied to the enterprise level, the machine-level and user-level settings are not considered. The Perm view utility is used only to view, not configure, security settings.

Question: 12.

You are writing code for a Windows Form HR application that will allow users to save original and edited data on employees. You use data sets to achieve this. You will be using the WriteXml method to write the XML. The WriteXml method accepts an XmlWriteMode parameter to determine the XML format. Which member of the XmlWriteMode enumeration should you select? (Select the best choice.)

- A. The default member
- B. Write Schema
- C. DiffGram
- D. IgnoreSchema

Answer: C

Explanation:

The XmlWriteMode parameter of the XmlWriter class, when set to DiffGram, creates a DiffGram XML document from a data set. The Diffgram XML document format stores the original and current data in the same XML document. Setting the XmlWriteMode parameter to IgnoreSchema writes the contents of the data set to XML without including a schema. Specifying Write Schema will write both the data and the schema from a DataSet object. The default member of the XmlWriteMode enumeration is Write Schema.

Question: 13.

You are contracted to develop a Customer Relationship Management system for ESWare Inc. You have created a stored procedure named sp_GetYTDRvenues that returns the Year to Date revenue as an output parameter. This total must be produced in a string. You write the following code to call sp_GetYTDRvenues:

```
`Other code omitted
```

```

\...
\...
cmd.CommandType = CommandType.StoredProcedure;
SqlParameter parm = cmd.Parameters.Add( __

    "@YTDRRev", SqlDbType.Int);parm.Direction
=ParameterDirection.Output;cnn.Open();cmd.ExecuteNonQuery();

```

Now you must write additional code to access the output parameter. Which code segment should you use?

- A. `strResult = "Total is: " & _
cmd.Parameters("@Output").Value.ToString();`
- B. `strResult = "Total is: " & _
cmd.Parameters("@Output").ToString();`
- C. `strResult = "Total is: " & _
cmd.Parameters("@YTDRRev").ToString();`
- D. `strResult = "Total is: " & _
cmd.Parameters("@YTDRRev").Value.ToString();`

Answer: D

Explanation:

The @YTDRRev parameter is declared as an output parameter with SQL Server data type INT. We use the Value property of the SqlParameter class to retrieve the value of this parameter. We must also convert the INT value to a string value with the ToString method. We then supply this string to the MessageBox.Show method.

Question: 14.

You use Visual Studio .NET to develop applications for your client, School of Computer Arts to manage access to Student data. You create the following interfaces:

```

Public Interface ICourseInstructors Property SocialSecurityNo() As DoubleEnd Interface
Public Interface IAssociateProfessors Inherits ICourseInstructors Property AnnualBonus()
As DoubleEnd Interface

```

The ICourseInstructors interface represents a generic Course Instructor. All actual employees in your company should be represented by interfaces that are derived from ICourseInstructors. Now you need to create a class named Associate Professors to represent Associate Professors in the School of Computer Arts. You want to create this class by using the minimum amount of code. You write the following code:

```

Public Class Associate Professors {
}

```

Which additional code segment or segments should you include in Associate Professors? (Choose all that apply)

- A. IAssociateProfessors
- B. Implements ICourseInstructors, IAssociateProfessors
- C. IAssociateProfessors
- D. ICourseInstructors, IAssociateProfessors
- E. Property Double SocialSecurityNo()ImplementsIAssociateProfessors.SocialSecurityNo
- F. Property Double AnnualBonus()Implements _IAssociateProfessors.AnnualBonus

Answer: A, E, F

Explanation:

A: A class can implement an Interface. The Manager class should implement the AssociateProfessors interface. E, F: The properties that are defined in the Interface must be implemented in a Class.

Question: 15.

You are developing a Windows-based application called `ESRawMaterialsApp` to integrate with your suppliers using XML. To maintain data integrity, `ESRawMaterialsApp` must parse the incoming XML data files from your suppliers to ensure that they conform to your schema. What should you do?

- A. Implement a `DataSet` object and code an event handler to process its events.
- B. Implement a `DataSet` object and set its `Enforce Constraints` property to `True`.
- C. Use `XMLPathDocument` to parse and correct the incoming XML data
- D. Use `XMLDataDocument` to parse and correct the incoming XML data
- E. Implement an `XmlValidatingReader` object and examine its `Read State` property after reading the XML data file.
- F. Implement an `XmlValidatingReader` object and code an event handler to process its events.

Answer: F

Explanation:

The `XmlValidatingReader` class, an implementation of the `XmlReader` class, provides support for XML validation. The `ValidationEventHandler` event is used to set an event handler for receiving information about schema validation errors.

Question: 16.

You use Visual Studio .NET to develop a Windows-based application called `ESVerifyRequirements` for the School of Renaissance History. Your application will display student information from a Microsoft SQL Server database that meet a specific criteria to be enrolled into courses in the following semester. The student information 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 `btnDisplayEligible`. When Course Administrators click this button, `DataGrid1` must display only students whose `Criteria Met` value is set to `True`. How should you implement this functionality?

- A. Set the `Filter` property of the `DataView` object to `"CriteriaMet = True"`.
- B. Set the `RowStateFilter` property of the `DataView` object to `"CriteriaMet = True"`.
- C. Set the `RowStateFilter` property of the `DataGrid` object to `"CriteriaMet = True"`.
- D. Set the `Sort` property of the `DataView` object to `"CriteriaMet = True"`.
- E. Set the `ApplyDefaultSort` property of the `DataView` object to `True`.
- F. Set the `RowFilter` property of the `DataView` object to `"CriteriaMet = True"`.

Answer: A

Explanation:

Using the `RowFilter` property of a data view, you can filter records in a data table to make available only records you want to work with.

Question: 17

You are the .Net Consultant for `ESBank`. `ESBank` wants to allow existing users of their ATM machines to apply for Internet BanSheets through their ATM machines. To do this, you use Visual Studio .NET to create a component named `ValidateValidATMUser` to verify if the user is a valid ATM customer. This component includes a method named `AcceptValidateValidATMUser`, which tries to process new user `ValidateValidATMUsers` for services. `AcceptValidateValidATMUser` calls a private function named `Validate`. You must ensure that any exceptions encountered by `Validate` are bubbled up to the parent form of `ValidateValidATMUser`. The parent form will then be responsible for handling the exceptions. You want to accomplish this goal by writing the minimum amount of code. What should you do?

- A. Use the following code segment in `AcceptValidateValidATMUser:Me.Validate()`
- B. Use the following code segment in `AcceptValidateValidATMUser:Try {Me.Validate()} Catch Exception ex {Throw ex}`
- C. Use the following code segment in `AcceptValidateValidATMUser:Try {Me.Validate()} Catch Exception ex { Throw new Exception ("Exception inAcceptValidateValidATMUser", ex) }`
- D. Create a customer Exception class named `ValidateValidATMUserException` by the following codesegment:

```
Public Class ValidateValidATMUserException Inherits System.ApplicationException
Public New() { }
Public New (String message) { MyBase.New(message) }
Public New (String message, Exception inner) { MyBase.New(message, inner) }
}

```

In addition, use the following code segment in `AcceptValidateValidATMUser:Try {Me.Validate(); } Catch Exception ex {Throw`

```
new ValidateValidATMUserException("Exception in _ AcceptValidateValidATMUser", ex); }
```

Answer: B

Explanation:

The unhandled exception automatically will be thrown to the client application. This solution meets the requirement that the least amount of code should be used. We must throw the exception as it is.

Question: 18.

You have been asked to build a Billing application for ESPowerHouse to bill its customers. Your application must facilitate auditing. To do this, you create a form in your application that will allow users to modify data in the Electricity Bill table. You have created a DataSet object named dsElectricityBill. You perform these operations:

- The data source of dsElectricityBill is ElectricityBill.
- Your application will have two grids, gridEdit and gridOriginal.
- The data source of gridEdit will be dsElectricityBill.
- Users of your application will make changes to the data in dsElectricityBill through gridEdit.
- When rows are modified in gridEdit, gridOriginal will display the original data of the modified rows. gridOriginal will display only rows that have been modified.
- The data source of gridOriginal will be a DataView object named dvOriginal. Which of the following actions should you perform to provide this functionality in your application? (Each choice presents a part of the solution.) (Select 2 choices.)
- Create dvOriginal with a clone of the dsElectricityBill data set.
- Set the Allow Paging property of gridEdit to true.
- Create dvOriginal with the dsElectricityBill data set.
- Set the ViewState property of gridOriginal to DataRowState.ModifiedOriginal.
- Set the RowStateFilter property of dvOriginal to DataRowState.ModifiedOriginal.

Answer: C, E

Explanation:

In this scenario, you want to enable one grid, gridOriginal, to automatically detect data changes that occur in the other grid, gridEdit. To accomplish this, gridOriginal should use a DataView object that is created with the same DataSet used by gridEdit. Because the RowStateFilter property filters the rows that are available in a DataView object, you should set the RowStateFilter to DataRowState.ModifiedOriginal.

Performing this action ensures that only the rows that have been modified will be displayed. The original data will be displayed in those rows. If the RowStateFilter property were set to DataRowState.ModifiedCurrent, then the current data of the modified rows would be displayed. The Clone method of a DataSet object creates a duplicate of the data set, but the clone contains no data. The ViewState property of the DataGrid Web control is used to maintain the grid's data between page requests and would not be used in the DataGrid control used on Windows forms. The Allow Paging property, when set to true, allows a data grid to display data in segments.

Question: 19.

You are debugging a financial application for ESGreenBack Inc. You notice that when btnOverdue changes the total charge is incorrect. You want execution to pause at a breakpoint if the value of a variable has changed. Which of the following actions should you perform to stop execution? (Select the best choice.)

- A. Set an assertion.
- B. Set a watch for the variable.
- C. Set a watch for the method which contains the variable.
- D. Use a Stop statement.
- E. Stop execution of the code immediately.
- F. Set a breakpoint with a condition.

Answer: D

Explanation:

Breakpoints are used to break execution while code is running in the Visual Studio .NET IDE. You can set conditions on breakpoints so that execution will pause only if a given condition is met. One of the conditions that you can set is whether a variable's value has changed. If the value has changed since the last time that the breakpoint was encountered, execution will stop on the line of code with the breakpoint that contains the variable. Setting a watch allows you to view the value of a variable as code executes.

Question: 20.

You are developing a secure Time Sheet Entry application for ESFirm. The systems analyst requires you to implement a proprietary authentication system that passes a different identification number for each of the user roles identified in the firm. Which of the following objects should you use? (Select the best choice.)

- A. Custom Identity
- B. Windows Identity
- C. Forms Identity
- D. Generic Identity

Answer: A**Explanation:**

Identity objects represent the user on whose behalf the code is running. A Custom Identity is a user-defined object that implements the `IIdentity` interface. Because this object is user-defined, it can contain user-specific data that the other types of identities are not equipped to handle. Windows Identities represent local or domain user accounts. Forms Identities are used in the implementation of form-based authentication with ASP.NET. Generic Identities represent generic users and can be used when the other types of identities are inappropriate.

Question: 21

You work as a software developer at Comapany.net. You use Visual Studio .NET to create an application that contains several Windows Forms. One of the Windows Forms uses the Trace class to write debugging information in a local log file.

You need to compile your application so it can be released to users. You want to achieve this goal with the minimum amount of administrative effort. For performance reasons, you will disable the trace functionality before you deliver the application. You might need to enable the Tracing code after deployment.

What should you do?

- A. Set your Configuration Manager to **Release**, and then compile your application.
- B. Use a TraceSwitch object that enables or disabled your Trace code through the application's configuration file.
- C. During deployment to users' computers, create a shortcut that starts your application with the `/TRACE=False` command line option.
- D. During deployment to users' computers, create a shortcut that starts your application with the `/d:TRACE=False` command line option.

Answer: B**Question: 22**

Your development team at Comapany.net is using Visual Studio .NET to create an accounting application, which contains a substantial amount of code. Sometimes a developer cannot complete a portion of code until dependencies are completed by another developer. In these cases, the developer adds a comment in the application code about the work left incomplete. Such comments always begin with the `UNDONE`.

You open the application code on your computer. As quickly as possible, you need to view each comment that indicates incomplete work.

What should you do?

- A. Configure the Task List window to show all tasks.

- B. Use the **Build Comment Web Pages** dialog box to build Comment Web Pages for the entire solution.
- C. Open a code window and use the **Find in Files** dialog box to search the application code for **UNDONE**.
- D. Open a code window and use the **Find** dialog box to search all open documents for **UNDONE**.

Answer: B

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