

Exam 70-305 study material

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Free 70-305 Exam Preparation Questions

Exam 70-305: Developing and Implementing Web Applications with Microsoft Visual Basic.NET

Question: 1

You develop a Web application used by ESSouvenirs' Purchasing Department executives that generates many types of reports. One type displays billing information over specified timeframes. You must ensure that this report is generated with minimum network traffic.

What should you do?

- A. Use Microsoft SQL Server indexes to optimize the data calculations
- B. Implement the calculations in a business layer class
- C. Implement the calculations in a data layer class
- D. Use Microsoft SQL Server stored procedures for the data calculations

Answer: D**Explanation:**

When SQL statements and conditional logic are written into a stored procedure, they become part of a single execution plan on the server. The results do not have to be returned to the client to have the conditional logic applied; all of the work is done on the server.

Question: 2

You are creating an ASP.NET application for a courier company. Using the new system, customers can query the status of their shipment by using a Web browser.

Another development team creates a delivery vehicle scheduling component that will be used by your ASP.NET application. The component requires several registry entries to be created during installation so that the component will run properly. The same component might be used by other ASP.NET applications in the future. You need to create a deployment package for your application. You want to include the redistributable component with your deployment package. What should you do?

- A. Create a setup project for the redistributable component.
Create a Web setup project for your ASP.NET application.
- B. Create a merge module project for your ASP.NET application. Create a setup project for redistributable component and add the merge module for your ASP.NET application to the project.
- C. Create a merge module project for the redistributable component. Create a Web setup project for your ASP.NET application and add the merge module for the redistributable component to the project.
- D. Create a merge module project for both your ASP.NET application and the redistributable component. Create a Web setup project and add both merge modules to the project.

Answer: C**Explanation:**

We create a merge module for the redistributable component. We then integrate the merge module into the Web setup project.

Question: 3

You create an ASP.NET application for an online payment company, FastPay Inc. The application provides account management functionality. A page named AccountWithdrawal.aspx contains a method named WithdrawFunds. The WithdrawFunds method is defined in the following code segment. (Line numbers are included for reference only.)

```
1 Private Function WithdrawFunds(Amount As Double)as Double 2 m_dAcctBal -= DbIAmt 3
Return m_dAcctBal 4 End Function
```

Your company's policy requires you to have the ability to enable the instrumentation after deploying it to production without requiring the application to be rebuilt. Which code should you insert at line 2 of the code segment?

- A. `Debug.Assert(m_dAcctBal - DbIAmt >=0, _
"Insufficient funds for withdrawal.")`
- B. `Debug.WriteLineIf(m_dAcctBal - >=0, _
"Insufficient funds for withdrawal.")`

- C. Trace.WriteLineIf(m_dAcctBal – DblAmt >=0, “Insufficient funds for withdrawal.”)
- D. Trace.Assert(m_dAcctBal – DblAmt >=0, “Insufficient funds for withdrawal.”)

Answer: D

Explanation:

As we want to the ability to enable the instrumentation after deployment we must use tracing. The Trace.Assert statement will stop the execution and display the message when the condition is appropriate.

Question: 4

You are creating an ASP.NET application for an online Test Center for Company. After the user ends the test, the application needs to submit the answers to the ProcessTestAnswers.aspx page without the user’s knowledge. The ProcessTestAnswers.aspx page processes the answers but does not provide any display information to the user. When the processing is complete, PassFailStatus.aspx displays the results to the user. You need to add a line of code to PassFailStatus.aspx to perform the functionality in ProcessTestAnswers.aspx. Which line of code should you use?

- A. Server.Execute(“ProcessTestAnswers.aspx”)
- B. Response.Redirect(“ProcessTestAnswers.aspx”)
- C. Response.WriteFile(“ProcessTestAnswers.aspx”)
- D. Server.Transfer(“ProcessTestAnswers.aspx”, True)

Answer: A

Explanation:

The HttpServerUtility.Execute method executes a request to another page using the specified URL path to the page. The Execute method continues execution of the original page after execution of the new page is completed.

Question: 5

You are the new programmer for an ASP.NET application for NorthSouthTraders. NorthSouthTraders operates retail stores in 16 countries worldwide. The company sells a widevariety of furniture, dining and kitchen goods, bath end bedding accessories and other specialty items for the home. Products are delivered to retail stores from regional distribution centers.

This application displays information about products that the NorthSouthTraders sells. The application uses a Microsoft SQL Server database. You have just made some changes to accommodate new features into the application. (Line numbers included for reference only.)

```
01 Dim cmd1 as New SqlCommand(“SELECT * FROM “_ &
“Products”,con
02 Dim dr1 as SqlDataReader 03 dr1 = cmd1.ExecuteReader() 04 Products.DataTextField =
“ProductName” 05 Products.DataValueField = “ProductID” 06 Products.DataSource =
NorthSouthTraders1 07 Products.DataBind() 08 Dim dr2 as SqlDataReader 09 cmd1.CommandText =
“SELECT * FROM Category” 10 dr2 = cmd1.ExecuteReader() 11 Category.DataTextField =
“CategoryName” 12 Category.DataValueField = “Category ID” 13 Category.DataSource =
NorthSouthTraders2 14 Category.DataBind()
```

During regression testing, the page raises an invalid operation exception. You need to ensure that the page displays correctly without raising an exception. What should you do?

- A. Add the following code between line 07 and line 08 of the code segment:
NorthSouthTraders1.Close()
- B. Replace the code for line 03 of the code segment with the following code:
NorthSouthTraders1.ExecuteReader(CommandBehavior.CloseConnection)
- C. Replace the code for line 09 and line 10 of the code segment with the following code: Dim cmd2 as New SqlCommand(“SELECT * FROM Category”,con) NorthSouthTraders2 = cmd2.ExecuteReader()

D. Remove the code for line 07 of the code segment. Replace the code for line 14 of the code segment with the following code: Page.DataBind()

Answer: A

Explanation:

You must explicitly call the Close method when you are through using the SqlDataReader to use the associated SqlConnection for any other purpose.

Question: 6

You create an ASP.NET application named ESFabricsRetailer for ESFabricsRetailer Inc. The application has a page named ProductDetails.aspx. This page is located in a virtual directory named ProductsCatalog, which is a child of the ESFabricsRetailer root directory. ProductDetails.aspx uses cookies to track modifications to the product's details so that the company users can undo modifications if necessary. You deploy your application on a computer named FabricSrv. Users report that the undo functionality stops working after they execute a specific sequence of actions. You need to view the cookie values after the sequence of actions to help identify the cause of the problem. You add the following element to the Web.config file: <trace enabled="true" pageOutput="false"/> You want to display the trace output information on your client computer. Which URL should you use?

- A. HTTP:// FabricSrv /ESFabricsRetailer/ProductsCatalog/ProductDetails.aspx?Trace=true
- B. HTTP:// FabricSrv /ESFabricsRetailer/ProductsCatalog/ProductDetails.aspx?trace.axd
- C. HTTP:// FabricSrv /ESFabricsRetailer/ProductsCatalog/ProductDetails.aspx
- D. HTTP:// FabricSrv /ESFabricsRetailer/ProductDetails.aspx?trace.axd
- E. HTTP:// FabricSrv /ESFabricsRetailer/ProductDetails.aspx?trace.axd
- F. HTTP:// FabricSrv /ESFabricsRetailer/trace.axd

Answer: F

Explanation:

Trace.axd is an Http Handler that we can use to request application trace details. To use trace.axd, simply request trace.axd in the same application directory, not the virtual directory, that the request for the sample application was made. The output provided by tracing view, either through Trace.axd or on a page, provides six sections of detail:

Question: 7

You create an ASP.NET application for Regalia Bank. The project manager requires a standard appearance for all Web applications. Standards are expected to change periodically. You need to enforce these standards and reduce maintenance time. What should you do?

- A. Create a Microsoft Visual Studio .NET Enterprise template.
- B. Create a sample HTML page.
- C. Create a sample ASP.NET Web form.
- D. Create a cascading style sheet.

Answer: D

Explanation:

Cascading style sheet helps us maintain standards and reduce maintenance time

Question: 8

BizFlier Airlines uses an external vendor to provide flight scheduling services. Fifteen dedicated terminals communicate with the vendor's mainframe computer. As part of your company's plan to phase out the terminals, you are in charged of building an ASP.NET application that communicates with the Web service provided by the external vendor. Your application builds a DataSet object, dsBizFlier, from data that is received from the Web service. The contents of the dataset are displayed in a DataGrid control. Users of your application are able to modify the data in the data grid. After a user has finished modifying data, the user can submit the data changes to the Web service by clicking a button. When the

button is clicked, a new DataSet object named dsMod should be created and filled with only the modified rows of dsBizFlier. The data in dsModified will be sent to the Web service. Which of the following lines of code should you use to fill dsModified with modified rows from dsBizFlier? (Select the best choice.)

- A. dsBizFlier.Fill(dsModified)
- B. dsModified = dsBizFlier.Copy(DataRowState.Modified)
- C. dsModified = dsBizFlier.GetChanges()
- D. dsBizFlier.Fill(dsModified, DataRowState.Modified)

Answer: C

Explanation:

You should use the code dsModified = dsBizFlier.GetChanges() to fill the dsModified dataset with rows that have been modified in the dsBizFlier dataset. The GetChanges method returns a copy of the dataset that includes only the rows that have been modified since the last AcceptChanges method was called. The GetChanges method can also be filtered by specifying a member of the DataRowState enumeration. For example, the code dsModified = dsBizFlier.GetChanges(DataRowState.Added) will return only the rows that have been added to the dsBizFlier dataset.

Question: 9

Your team builds a daily release of your new online loan processing application for testing by the quality assurance(QA) team. You find that the volume of bugs is threatening your project schedule. The following example is a typical bug:

• Unit tests reveal errors in the Dataset object. You need to write code that will handle errors in the DataSet object. You want to see the errors that may exist in any of the rows in the dataset. You have written the following code. (Line numbers are for reference only.)

```
01 Dim drErrors As DataRow, iIndex as Integer
02 If myDataSet.Tables("Table1").HasErrors
Then
03 For iIndex = 0 to drErrors.GetUpperBound(0)
04 Console.WriteLine(drErrors(iIndex).RowError)
05 Next
06 End If
```

Which of the following lines of code should reside on line 03? (Select the best choice.)

- A. drErrors = myDataSet.Tables("Table1").GetErrors
- B. drErrors = myDataSet.Clone
- C. drErrors = myDataSet.Tables.Clone
- D. drErrors = myDataSet.Clone.GetErrors

Answer: A

Explanation:

The code that should reside on line 03 is drErrors = myDataSet.Tables("Table1").GetErrors. The GetErrors method of the DataTable class returns an array of DataRows that contain errors. The HasErrors property on line 02 returns a True value if the table contains errors. If the dataset in this scenario, myDataSet, contained more than one table, it would have been more efficient to check the HasErrors method of the dataset rather than checking the HasErrors method of each table. None of the other choices should be placed on line 03 because they would not return the rows containing errors.

Question: 10

You are developing an ASP.Net application which provides course scheduling and course registration in a project module named ESCourseManagement. Your solution will consist of a new administrative application and associated user applications. You are now performing unit tests. You attempt to step into a call to the RegisterStudents() method. Instead of showing the first line of code in the RegisterStudents() method, the interactive debugger moves to the next line of code in the .aspx page. You need to enable interactive debugger to step into the code within the Assets class. What should you do in Visual Studio .NET?

- A. Configure Visual Studio .NET to enable just-in-time debugging for native programs.
- B. In the Configuration Manager, select the Debug configuration and rebuild the ESCourseManagement project.
- C. Configure Visual Studio .NET to allow editing of Visual Basic files while debugging.
- D. In the Configuration Manager, select the Debug configuration and rebuild the ASP.NET

application.

Answer: B

Explanation:

You must build the Debug version of the class library first and make sure the Debug version is in the location where the application expects to find it.

Question: 11

You create an online ordering ASP.NET application for Healthlife Inc. Healthlife manufactures and sells health supplements on a whole sale basis to more than 5,000 customers.

You need to store a small amount of page-specific information on pages that are submitted to the server. This information does not need to be secured. A few customers report that they are unable to check out successfully. You anticipate that the volume of orders on the site will be high, and you need to conserve server resources. What should you do?

- A. Store the information in application state variables.
- B. Store the information in session state variables.
- C. Store the information in a Microsoft SQL Server database.
- D. Store the information in hidden fields on the page.

Answer: D

Explanation:

Hidden fields must be used in this situation since some customers may have disabled cookies. The advantages of hidden fields are

- No server resources are required. Server resources will be conserved.
- Broad support. It will work on browsers that do not support cookies.

Question: 12

You are creating an ASP.NET page that displays inventory figures for selected products of Duraware. Data is stored in a Microsoft SQL Server database named DurawareDB. The identification number of an item is stored in a string variable named ItemID, and the SQL statement for your query is stored in a variable named SQL. You use the following line of code to construct the SQL query:

```
SQL = "SELECT SupplierID, RangeID, ReorderID, UnitsOnHand,  
UnitsSold FROM InventoryTable"
```

```
+ " WHERE ProductID = " + ItemID;
```

You want to assign the UnitsOnHand quantity to a variable named DurawareOnHand. Which line of code should you use?

- A. DurawareOnHand = reader.GetInt16(0)
- B. DurawareOnHand = reader.GetInt16(1)
- C. DurawareOnHand = reader.GetInt32(1)
- D. DurawareOnHand = reader.GetInt32(3)

Answer: D

Explanation:

The SQL Server datatype int corresponds to 32-bit Visual Basic .NET integers. We must therefore use the GetInt32 method which gets the value of the specified column as a 32-bit signed integer. We must specify the 3rd column as we want to retrieve the value of the UnitsOnHand column which is listed first in the SQL SELECT statement. The GetInt32 parameter, which specifies the ordinal of the column, is 0 based. We should use the 3 value of the parameter to retrieve the appropriate column.

Question: 13

You are creating an ASP.NET application for your company Company. Company data is stored in a Microsoft SQL Server 6.5 database. The Web application enables supervisors to use the Internet to perform the following actions:

- Add and remove new helpdesk executives from the list of employees on job probation.
- For helpdesk executive, view a summary of calls answered to date.
- For each call, view details. What should you do?
- Use a SqlConnection object to connect to the database, and use a SqlCommand object to run a stored procedure that returns the data.
- Use an OleDbConnection object to connect to the database, and use an OleDbCommand object to run a stored procedure that returns the data.
- Configure SQL Server to support HTTP access, and create an XML template to run a stored procedure that returns the data in XML format.
- Use COM interop to create an ADODB.Connection object, and use an ADODB.Command object to run a SQL statement that returns the data.

Answer: B

Explanation:

We need to use an OleDbConnection to connect to SQL Server Version 6.5 (or earlier).

Question: 14

You are creating an ASP.NET application for Transnational Movers Inc. Transnational Movers Inc will be using an XML Web service that their shipping partner has implemented. You have access to the XML Web service. You want to create a class that calls the XML Web service. What should you do?

- A. Select Add Web Service from the Project menu in Visual Studio .NET and browse to the XML Web service.
- B. Select Add Reference from the Project menu in Visual Studio .NET and browse to the XML Web service.
- C. Select Add Web Reference from the Project menu in Visual Studio .NET and browse to the XML Web service.
- D. Run the Type Library Importer (Tlbimp.exe) and provide it with the URL for the XML Web service.
- E. Run the Web Services Discover tool (Disco.exe) and provide it with the URL for the XML Web service.

Answer: C

Explanation:

You can add a Web reference to projects that use XML Web services that are published on the Internet or on your local Web servers.

Question: 15

You are creating an ASP.NET page for Company Test Center. You create a DataGrid control that displays past exams taken by customers. The DataGrid control is populated from an existing database when the page is created.

The page contains TextBox controls that allow customers to update their personal information, such as address and telephone number. You need to ensure that the page is refreshed as quickly as possible when users update their contact information. What should you do?

- A. Set the Enable property of the DataGrid control to false.
- B. Write in the Page.Load event handler that populates the DataGrid control only when the IsPostBack property of the page is true.
- C. Set the EnableViewState property of the DataGrid to false.
- D. Write code in the Page.Load event handler that populates the DataGrid control only when the IsPostBack property of the page is false.

Answer: B

Explanation:

The Page.IsPostBack property gets a value indicating whether the page is being loaded in response to a client postback, or if it is being loaded and accessed for the first time. The value is true if the page is being loaded in response to a client postback; otherwise, false. By adding code in the Page Load event handler that populates the Data Grid control when the IsPostBack property is true we ensure that the page is refreshed as quickly as possible.

Question: 16

You are creating a new ASP.NET page named TranscriptInfo that displays student transcript information for their subjects. When a student logs on to the Web site, the page retrieves the current subjects from a database. GradesList will be accessed by several thousand students. When transcript data is retrieved for a user, the grades remain valid for as long as the user continues to access the page. Users are allowed to keep the data for a semester. When GradesList is posted back to the server, you want to ensure that the grade listing was not altered on the user's computer. You also want to minimize the memory resources consumed on the Web server. Which three parameters should you add to the Page directive in ItemList? (Each correct answer presents part of the solution. Choose three)

- A. EnableSessionState="True"
- B. EnableSessionState="False"
- C. EnableSessionState="ReadOnly"
- D. EnableViewState="True"
- E. EnableViewState="False"
- F. EnableViewStateMac="True"
- G. EnableViewStateMac="False"

Answer: B, D, F

Explanation:

To minimize the memory resources consumed on the Web server we need to use view state instead of session state. Setting EnableViewState to true will only cost us bandwidth, not memory resources.

Question: 17

You are contracted to create an ASP.Net web site for ESPowerLight Inc. ESPowerLight Inc is a large regional provider of electrical services for residential and business customers. The database stores and manipulates data in a Microsoft SQL Server database ESPowerLightDB. One of the pages in the application will be used for performing month-end operations to calculate the electricity bill of customers.

When a user clicks a button on the page, you want your code to run several stored procedures to calculate the month-end balances. These procedures must all succeed before the calculated balances can be stored in the database. If any of the procedures fail, then you do not want to store any of the month-end calculated balances. While the procedures are running, you do not want any users to be able to edit, add, or delete the tables affected by the procedures.

What should you do?

- A. Set the IsolationLevel property of a SqlTransaction object to IsolationLevel.Serializable. Assign the SqlTransaction object to the Transaction property of the SqlCommand object. Use a SqlCommand object to run the stored procedures.
- B. Create a class derived from System.EnterpriseServices.ServicesComponent to run the stored procedures. Annotate the class by using a TransactionAttribute type of attribute. Set the Value property of the attribute to TransactionOption.RequiresNew.
- C. Create a master stored procedure. Use this master stored procedure to call the other stored procedures that perform the month-end operations. Add WITH REPEATABLE READ to the master stored procedure.
- D. Use structured exception handling to catch a SqlException if one of the stored procedures fails. Use the Procedure property of the SqlException to identify which stored procedure generated the exception, and call a stored procedure to reserve the previous calculations.

Answer: A

Explanation:

We should use a Transaction to ensure that either all stored procedures will succeed or if one stored procedure fails, the whole transaction will be backtracked. Furthermore, in order to protect the data in tables during the transaction, we should use the highest transaction isolation level of Serializable. We use a SqlCommand object to run the stored procedure. We set the Transaction property of the SqlCommand to the SqlTransaction object we created.

Question: 18

You are creating an ASP.NET page for selling intercity airline flights tickets. Users select a region, and then they select from a list of cities in that region. The site displays the names and locations of airports in the city selected by the user. Your company, CompanyFlyAway Inc, maintains a list of airports in a database table that includes the city, airport name, and airport code of each airport. You want to minimize the time required to retrieve and display the list of airport names after a user selects the region and city. What should you do?

- A. Modify the connection string to add the packet size property and set its values to 8192.
- B. Add the following directive to the page:
OutputCache VaryByControl="region;city"
- C. Modify the connection string to keep your database's connection pool as small as possible.
- D. Add the following directive to the page:
OutputCache VaryByParam="city"

Answer: D

Explanation:

You can vary user control output to the cache by specifying the user control name and the parameter. We use the VaryByParam attribute of the @ OutputCache

Question: 19

You are creating an ASP.NET application for ShalomInc. ShalomInc is an international hotel resort which has just acquired LebanonResorts Inc. Your application must consolidate data with a few requirements. The new application will be used to identify potential customers. Your application will call an XML Web service run by LebanonResorts Inc. The XML Web service will return an ADO.NET DataSet object containing a list of companies that purchase wine. You want to merge this DataSet object into a DataSet object containing a list of companies that are potential customers. You specify LebanonResorts as the name of the DataSet object from LebanonResorts Inc, and you specify customerProspects as the name of the DataSet object containing potential customers. After the data merge, ShalomInc will include the company names in LebanonResorts. The two DataSet objects contain tables that have the same names and primary keys. The tables in the two DataSet objects contain columns that have the same names and data types. A table in LebanonResorts also contains additional columns that you do not want to add to ShalomInc. If ShalomInc included any tables containing rows with pending changes, you want to preserve the current values in those rows when the merge occurs. Which line of code should you use to merge the LebanonResorts DataSet object into ShalomInc DataSet object?

- A. ShalomInc.Merge (LebanonResorts, true, MissingSchemaAction.Ignore)
- B. ShalomInc.Merge (LebanonResorts, true, MissingSchemaAction.AddWithKey)
- C. LebanonResorts.Merge (ShalomInc, true, MissingSchemaAction.Ignore)
- D. LebanonResorts.Merge (ShalomInc, true, MissingSchemaAction.Add)

Answer: A

Explanation:

The DataSet.Merge (DataTable, Boolean, MissingSchemaAction) method merges this DataTable with a specified DataTable preserving changes according to the specified argument, and handling an incompatible schema according to the specified argument. As we want to merge the DataSets into the LebanonResorts DataSet we should apply the merge method on LebanonResorts. The Ignore MissingSchemaAction ignores the extra columns. This meets the requirement not to add the extra

columns from the table in LebanonResorts that contains additional columns.

Question: 20

You are creating a localized ASP.Net website to be used by your customers in Prague, Hamburg, Pennsylvania, Beijing and London. You need to determine which satellite assembly is used to load localized resources. Which of the following should you use in your application? (Select the best choice.)

- A. Set the culture and uiCulture attributes of the globalization element in Web.config
- B. Set the CurrentCulture property
- C. Use the Thread class' s CurrentUICulture
- D. Use the Request object' s UserLanguages

Answer: C

Explanation:

We must use the Thread class's CurrentUICulture to determine which satellite assembly is used to load localized resources.

Question: 21

DayStar Inc has posts important notices on its intranet website. Information includes the company's current stock price, corporate announcements, business-related news items, and recognition of employee birthdays and service anniversaries. The website is shut down at midnight for backup. The daily information must be extracted from a database and stored in an XML file each day. This should be done before the home page is displayed to the first user who accesses the intranet application. In which file should you place the code that will build this XML file? (Select the best choice.)

- A. the Global.asax file
- B. the AssemblyInfo.vb file
- C. the Web.config file
- D. the application's startup form

Answer: A

Explanation:

You should place the code to build the XML data file in the Global.asax file. The Global.asax file contains application-level and session-level event handlers. The Application_OnStart event handler is called each time the application is started, which occurs daily the first time a page of the application is opened. If the code were placed in the application's startup form, then the file would be recreated each time a new user accessed the application. The Web.config file has no mechanism for creating an XML data file. The AssemblyInfo.vb file is typically used to hold an application's global attributes.

Question: 22

CustomCompo Inc sells customized server controls for ASP.Net. You are developing a custom server control that will be used by your customers' ASP.NET applications. Your control contains a TextBox control. You custom control will allow developers to set properties of the text box, such as ForeColor, Font, and BackColor. Which of the following actions should you take to allow ASP.NET applications to access the text box's properties? (Select the best choice.)

- A. Declare the text box as Public myTextBox as TextBox.
- B. Create a public field for each exposed text box property.
- C. Declare a namespace.
- D. Create a public property for each exposed text box property.

Answer: D

Explanation:

You should create a public property in your custom control for each exposed text box property to allow ASP.NET applications to access the

Question: 23

Which of the following lines of code will cause a compilation error? (Select all choices that are correct.)

- A. Session("MyVal")=777
- B. Session("MyVal").Contents=777
- C. Session.Contents("MyVal")=777
- D. Session.Add("MyVal")=777
- E. Session.Contents.Add("MyVal")=777

Answer: B, E

Explanation:

Only choices a, c and d are correct. Values can be stored in a Session object either by calling the Add method or by stating a key/value pair. The following lines of code will both add the value 99 to a key name of MyVal: Session("MyVal")=777 Session.Add("MyVal")=777 The Contents property of the Session object provides compatibility with previous versions of ASP. The code Session.Contents("MyVal")=99 is also a valid method of adding the value **99** to a key name of MyVal.

Question: 24

Your ASP.NET application manages order entry data by using a DataSet object named ESOrderEntry. You are creating a Transact-SQL statement that will return the value of an Identity column in the OrderEntry table. Which T-SQL function should you use in your query to determine the value of the Identity column? (Select the best choice.)

- A. IDENT_SEED
- B. DATALENGTH
- C. IDENT_INCR
- D. SCOPE_IDENTITY

Answer: D

Explanation:

The T-SQL function that you should use in your query to determine the value of the Identity column is SCOPE_IDENTITY. The SCOPE_IDENTITY function returns the value of the Identity column of the row that was most recently added to a table. Identity columns are columns that contain a unique number and are used to uniquely identify each row. By using this value as an output parameter in an INSERT stored procedure, it is possible to automatically update datasets with the value of Identity or Autonumber columns in scenarios where multiple users will be inserting rows into the same table.

Question: 25

You are developing an ASP.Net application for customers of BlueSky International Airlines to view their reservations. You want the FlightNumber field to be displayed in the first <td> element of the table of information fields. You need to add code to the <td> element of the table to display the FlightNumber. Which code should you use?

- A. <td><%=FlightNumber%></td>
- B. <td><script runat="server">FlightNumber</script></td>
- C. <td><script>document.write("FlightNumber");</scripts></td>
- D. <td>=FlightNumber</td>

Answer: A

Explanation:

FlightNumber is a public property contained on the Web server. We reference it with the <%=FlightNumber%> element

Question: 26

You are developing an ASP.NET application which provides flight booking services to customers. The IT Manager has expressed the need to be able to see trace information of the new application. You have been instructed to enable instrumentation on all of the application's pages.

You should display tracing for only the first twenty five requests to your application. Trace information

should appear at the bottom of each requested Web page. What actions should you perform to meet the requirement in the most efficient manner? (Each choice presents a part of the solution.) (Select 3 choices.)

- A. Set the value of the @ Page directive's Trace attribute to true on each page that should display trace information.
- B. Configure the Web.config file in your application's root directory so that the Trace element's requestLimit attribute is set to 25.
- C. Configure the Web.config file in your application's root directory so that the Trace element's pageOutput attribute is set to true.
- D. Set the value of the @ Page directive's Trace attribute to 25 on each page that should display trace information.
- E. Configure the Web.config file in your application's root directory so that the Trace element's enabled attribute is set to true.

Answer: B, C, E

Explanation:

To enable tracing for the first twenty five requests of all pages in your application and to display trace information at the bottom of each page, you should configure the Web.config file so that the Trace element's enable attribute is set to true, the requestLimit attribute is set to 20 and the pageOutput attribute is set to true. Tracing can be enabled on a page-by-page basis by using the @ Page directive, or it can be enabled for an entire application by configuring the Web.config file in the application's root directory. In this scenario, it is more efficient to enable tracing through a single setting in the Web.config file than to modify every page's @ Page directive. The Web.config file should include these lines: `<system.web> <trace enabled="true" pageOutput="true" requestLimit="20" /> </system.web>` The pageOutput attribute determines where the trace information is displayed. Setting the pageOutput attribute to false, or not specifying a pageOutput value, will send the trace information to a Trace.axd file; a true value will send the information to both the Trace.axd file and the bottom of the Web page. The requestLimit attribute determines the number of requests for which to record trace information.

Question: 27

You are creating an ASP.NET application for Company. Company deploys an XML Web service that returns a list of online new articles that contain requested keywords. The Chief Information Officer has requested you to monitor the performance of the new application. Monitoring will tell Company when they need to scale the solution. You must ensure that the new application can be monitored while it is running. Which approach should you use?

- A. TraceSwitch objects
- B. Diagnostic tools
- C. PerformanceCounter objects
- D. Windows Management Instrumentation Job Object provider

Answer: C

Explanation:

Using the PerformanceCounter object within the solution would allow developers to write performance specific information that can be monitored by Performance Monitor while the application is running.

Question: 28

Your company which sells computer hardware online, has a subsidiary in Spain. You are modifying your corporate intranet site to support users in Spain who do not speak English. Which of the following actions should you take to allow either Spanish or English culture settings to be used as appropriate with the least amount of end-user interaction? (Select the best choice.)

- A. Read the preferred culture from the properties of the Request object.
- B. Place a Web.config file that specifies the preferred culture on the client workstation.
- C. When a user accesses the intranet site for the first time, display a form that asks the user if he or

- she prefers to use Spanish or English. Store a cookie on the user's computer that holds the user's preference. Configure the culture settings based on the value of the cookie.
- D. Set the value of a session variable named Culture to En for English users and Fr for Spanish users.

Answer: A

Explanation:

You should read the preferred culture from the properties of the Request object. The UserLanguages property of the Request object contains a string array of the languages that are preferred by the user and can be used to ensure that the application responds to the user appropriately. Session and application variables are not designed to persist data indefinitely. The Web.config file is a server-side configuration file that has no effect when placed on the client workstation. Storing the user's preferred language in a cookie requires more intervention than necessary from the end user.

Question: 29

You are developing an ASP.Net ticketing system for FASTAR-LRT. Tickets are purchased at about 270 tickets per minute. You want to ensure that transactions are completed safely. What isolation level should you use? (Select the best choice.)

- A. ReadCommitted
- B. ReadUncommitted
- C. RepeatableRead
- D. Serializable

Answer: D

Explanation:

The Serializable value of the TransactionIsolationLevel enumeration specifies that no users should be able to add rows or modify data in a data set while a transaction is open. The ReadCommitted value specifies that locks are placed on the data while it is being read, but data can still be altered before the transaction is complete. No locks are held in a ReadUncommitted transaction. With RepeatableRead, a transaction will prevent others from modifying data while a transaction is open, but phantom rows can still be created.

Question: 30

You are an ASP.Net application developer. You need to find out which method is calling MethodX(), that is causing a logical error. Which of the following windows should you use to view the errors? (Select the best choice.)

- A. Locals
- B. Disassembly
- C. Call Stack
- D. Output

Answer: C

Explanation:

The Call Stack window shows the current call stack while in debug mode. The Output window displays syntax errors that occur when building an application. It also provides Debug and Trace output. By rightclicking the error and selecting Go To Error/Tag, you can navigate to the lines of code that are responsible for the errors. The Locals window displays the names and values of variables that are currently in scope. The Disassembly window displays assembly code from the compiler.

Question: 31

You are developing an ASP.Net application. You discover that there are many errors in classes developed by your colleagues. What should you do? (Select all choices that are correct.)

- A. walking through all the code of a project
- B. combining individual components in groups and testing the group

- C. walking through the code of components that have been debugged
- D. building a demo front end to execute every method of every component and verify return values
- E. testing communication between a component and a third-party Web service
- F. walking through each stored procedure in the database
- G. inspecting the values returned from each stored procedure

Answer: D, G

Explanation:

We should perform unit testing. Unit testing is the process of analyzing the behavior of small parts of an application. Thoroughly testing individual units and measuring the results are two important concepts of unit testing. Merely walking through the code in an application or a stored procedure is not a valid method of unit testing. Valid unit testing methods include testing the values returned by individual components and verifying that those values match what is expected. Testing groups of components is considered part of integration testing and should be performed after unit testing. Testing code that has been debugged is part of regression testing.

Question: 32

You are an ASP.Net application developer. You are designing a function that returns a the number of students enrolled in a course. You use the ExecuteNonQuery method of the SqlCommand class to execute a Transact-SQL statement. Which of the following values will be returned by the ExecuteNonQuery method? (Select the best choice.)

- A. an integer indicating the number of rows affected
- B. a Boolean value indicating that the command processed correctly
- C. a string with the name of the stored procedure or query string that executed
- D. a string with the description of any errors that may have occurred

Answer: A

Explanation:

The ExecuteNonQuery method is used to process Transact-SQL statements that perform DELETE, INSERT and UPDATE functions. The method returns an integer indicating the number of rows that were deleted, inserted or updated. The ExecuteNonQuery method does not return any rows, but will populate any output parameters that are present in the Command object.

Question: 33

You need to obtain the CGPA for students of the School of Business in a text format. Which of the following code fragments will set the Text property of a TextBox control to the value of the @CGPA output parameter? (Select the best choice.)

- A. `TextBox1.Text = (string) myCommand.Parameters("@CGPA").Value;`
- B. `TextBox1.Text = myCommand.Parameters("@CGPA").Value.ToString();`
- C. `TextBox1.Text = myCommand.Parameters("@CGPA").ToString();`
- D. `TextBox1.Text = myCommand.Parameters("@CGPA").SourceColumn;`

Answer: A

Explanation:

The Value property of the SqlParameter class returns the value of the specified output parameter. The (string) typecast ensures that the value is a string before assigning the value to the text box's Text property. It is invalid syntax to append ToString to the Value property of a SqlParameter object. The ToString property of a SqlCommand object will return the parameter name, not the value. The SourceColumn property will return the column name that is used for the Value property.

Question: 34

You are creating an ASP.NET application for Company Inc. Users will use the application to produce reports. While you are debugging an application, you must be able to see when the value of a particular variable in a procedure is not zero. Which method of the Debug class should you use to output the contents of the call stack when the variable is not zero? (Select the best choice.)

- A. Writelf
- B. WriteLinelf
- C. Assert
- D. Write

Answer: C**Explanation:**

The Assert method of the Debug and Trace classes determines whether an expression evaluates to false, and if so, outputs the call stack or a specified message. The Writelf and WriteLinelf methods send messages to the listeners if an expression evaluates to true, but they cannot display the call stack. The Write method will output a specified message each time it is called.

Question: 35

Which of the following properties of the XmlDocument class returns the XmlDocument of the current node? (Select the best choice.)

- A. DocumentElement
- B. FirstChild
- C. LastChild
- D. OwnerDocument

Answer: D**Explanation:**

The OwnerDocument property returns the XmlDocument of the current node. The DocumentElement property returns an XmlElement object that represents the root node of an XML document. Because the DocumentElement property always refers to the root node of an XML document, it provides a relatively simple method of accessing properties of the root node.

The FirstChild property returns the first child of a node. The LastChild property returns the last child of a node.

Question: 36

A company contracts you to create a Web site for customer bill payment. You are coding a user interface to calculate the sum of the amount owed to you by the customer. Which of the following methods should you use to query the database? (Select the best choice.)

- A. Read
- B. ExecuteNonQuery
- C. ExecuteScalar
- D. ExecuteReader

Answer: C**Explanation:**

The ExecuteScalar method of the Command class returns the value of the first row and first column that is returned by the query. Because the method only returns a single value, it is appropriate for stored procedures and queries that return one value. The Read method of the DataReader class moves the reader to the next record. The ExecuteNonQuery method of the Command class executes queries, such as DELETE or UPDATE, that do not return a value. The ExecuteReader method of the Command class builds a reader with data that satisfies the CommandText property.

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