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C# and .Net Frame work

1. Which of the following statements are TRUE about the .NET CLR?
 1. It provides a language-neutral development & execution environment.
 2. It ensures that an application would not be able to access memory that it is not authorized to access.
 3. It provides services to run "managed" applications.
 4. The resources are garbage collected.
 5. It provides services to run "unmanaged" applications.

A. Only 1 and 2
B. Only 1, 2 and 4
C. **1, 2, 3, 4**
D. Only 4 and 5
E. Only 3 and 4
2. Which of the following statements is correct about Managed Code?
 - A. Managed code is the code that is compiled by the JIT compilers.
 - B. Managed code is the code where resources are Garbage Collected.
 - C. Managed code is the code that runs on top of Windows.
 - D. **Managed code is the code that is written to target the services of the CLR.**
 - E. Managed code is the code that can run on top of Linux.
3. Which of the following utilities can be used to compile managed assemblies into processor-specific native code?
 - A. gacutil
 - B. **ngen**
 - C. sn
 - D. dumpbin
 - E. ildasm



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4. Which of the following jobs are NOT performed by Garbage Collector?

1. Freeing memory on the stack.
2. Avoiding memory leaks.
3. Freeing memory occupied by unreferenced objects.
4. Closing unclosed database collections.
5. Closing unclosed files.

A. 1, 2, 3

B. 3, 5

C. 1, 4, 5

D. 3, 4

5. Which of the following constitutes the .NET Framework?

1. ASP.NET Applications
2. CLR
3. Framework Class Library
4. WinForm Applications
5. Windows Services

A. 1, 2

B. 2, 3

C. 3, 4

D. 2, 5

6. Which of the following assemblies can be stored in Global Assembly Cache?

- A. Private Assemblies
- B. Friend Assemblies
- C. **Shared Assemblies**
- D. Public Assemblies
- E. Protected Assemblies



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7. Which of the following is the root of the .NET type hierarchy?

- A. **System.Object**
- B. System.Type
- C. System.Base
- D. System.Parent
- E. System.Root

8. Which of the following security features can .NET applications avail?

- 1. PIN Security
- 2. Code Access Security
- 3. Role Based Security
- 4. Authentication Security
- 5. Biorhythm Security

- A. 1, 4, 5
- B. 2, 5
- C. 2, 3
- D. 3, 4

9. Which of the following statements are correct about JIT?

- 1. JIT compiler compiles instructions into machine code at run time.
- 2. The code compiler by the JIT compiler runs under CLR.
- 3. The instructions compiled by JIT compilers are written in native code.
- 4. The instructions compiled by JIT compilers are written in Intermediate Language (IL) code.



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5. The method is JIT compiled even if it is not called

- A. 1, 2, 3
- B. 2, 4
- C. 3, 4, 5
- D. 1, 2

10. Which of the following are parts of the .NET Framework?

- 1. The Common Language Runtime (CLR)
- 2. The Framework Class Libraries (FCL)
- 3. Microsoft Published Web Services
- 4. Applications deployed on IIS
- 5. Mobile Applications

- A. Only 1, 2, 3
- B. Only 1, 2
- C. Only 1, 2, 4
- D. Only 4, 5
- E. All of the above

11. Which of the following converts a type to a byte value in C#?

- A - ToSingle
- B - ToByte**
- C - ToChar
- D - ToDateTime

12. Operator overloading is a kind of dynamic polymorphism.

- A - true
- B – false**



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13. Which of the following preprocessor directive allows testing a symbol or symbols to see if they evaluate to true in C#?

A - define

B - undef

C - if

D - elif

14. How to kill a user session explicitly?

A.Session.Close()

B.Session.Discard()

C.Session.kill()

D.Session.Abandon()

15. What is the output of the code

```
public class B : A { }
```

A. Errors

B. It defines a class that inherits the public methods of A only.

C. It defines a class that inherits all the methods of A but the private members cannot be accessed.

D. B and C

16. Sealed Classes cannot be a base class.

A. True

B. False

17. Difference between Convert.ToString() and ToString()

A. Convert.ToString() handles null values but ToString() doesn't

B. ToString() output as per format supplied

C. Convert.ToString() only handles null values

D. ToString() handles null values but Convert.ToString() doesn't

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18. The RangeValidator control supports the following data types

- A. Integer Only
- B. Date, Integer and String**
- C. Only String
- D. Date and Integer

19. Can you inherit multiple interfaces?

- A. Yes**
- B. No

20. Can you store multiple data types in System.Array?

- A. No
- B. Yes**

21. If a class is using an interface, it must

- A. Inherits the properties of interface
- B. Contain the same method definitions as the interface
- C. Both A and B**

22. What does the keyword virtual mean in the method definition?

- A. The method is public
- B. The method can be derived
- C. The method is static
- D. The method can be overridden**

23. Is there any error in the following code? If yes, identify the error.

```
EmployeeMgmt constructor: public int EmployeeMgmt() { emp_id = 100; }
```

- A. Return Type**
- B. No Errors
- C. Formal Parameters
- D. Name



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24. Boxing in .Net allows the user to convert
- A. a integer type to double
 - B. a reference type to a value type
 - C. a value type to a reference type**
 - D. a double type to interger
25. What is the .NET collection class that allows an element to be accessed using a unique key?
- A. Hash Table**
 - B. Array List
 - C. Sorted List
26. Returns a result set by way of a DataReader object.
- A. ExecuteNonQuery
 - B. ExecuteScalar
 - C. ExecuteReader**
27. Delegates can invoke the methods that they infer without making explicit calls to those methods.
- A. True**
 - B. False
28. Which type of assembly should be created when you want to provide different sets of resources for different culture?
- A. Private Assembly
 - B. Satellite Assembly**
 - C. Shared Assembly
29. Which property is used on the datatable to indicate conflicts after update method is called?
- A. HashErrorConflict**
 - B. HasError
 - C. HasCollision
 - D. HashDataError



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30. A DataAdapter facilitates disconnected data access.

A. True

B. False

31. It contains all the information needed to describe the assembly to the common language runtime.

A. Bootstrapper

B. Assembly Manifest

C. GAC

D. Strong Name

32. What component of a Data Provider provides connected, forward-only, read-only access to a database?

A. DataAdapter

B. Command Object

C. Connection Object

D. DataReader Object

33. You are creating a Windows Forms application by using the .NET Framework 3.5. You create a new form in the application. You add a ContextMenuStrip control named ctxMenu to the form. You have a user-defined class named CustomControl. You write the following code segment in the application. (Line numbers are included for reference only.)
CustomControl myControl = new CustomControl();
You need to ensure that an instance of CustomControl is displayed on the form as a top-level item of the ctxMenu control. What line of code should you write to do so?

**A. ToolStripControlHost host = new ToolStripControlHost(myControl);
ctxMenu.Items.Add(host);**

B. ToolStripPanel panel = new ToolStripPanel(); panel.Controls.Add(myControl);
ctxMenu.Controls.Add(panel);

C. ToolStripContentPanel panel = new ToolStripContentPanel();
panel.Controls.Add(myControl); ctxMenu.Controls.Add(panel);

D. ToolStripMenuItem menuItem = new ToolStripMenuItem(); ToolStripControlHost
host = new ToolStripControlHost(myControl); menuItem.DropDownItems.Add(host);
ctxMenu.Items.Add(menuItem);



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34. Which Gang of Four design pattern is shown below?

```
public class A { private A instance; private A() { } public static A Instance { get { if ( A == null ) A = new A(); return instance; } } }
```

- A. Factory
- B. Abstract Factory
- C. Singleton**
- D. Builder

35. Your company uses Visual Studio .NET as its application development platform. You have recently finished development of a class named ShopList using the .NET Framework. The class will include ShopItem objects that have the public properties exhibit below: 1. Name 2. ID 3. DiscountCode You need to enable users of the class to iterate through the ShopList collection, and to list each product's name and ID using the foreach statement. Which of the following code segments will you use to accomplish this task?

- A. public class ShopList : IEnumerable, IEnumerable { // Class implementation }**
- B. public class ShopList : IBindingList { //Class implementation }
- C. public class ShopList : IDictionary { // Class implementation }
- D. public class ShopList : ICollection { // Class implementation }

36. From a dataview dv who has a column “EmpNo” from employee table, how will u bind a textbox?

- A. TextBox.databinding.add(“Text”,dv,”EmpNo”);**
- B. TextBox.databinding.adddv,”EmpNo”);
- C. TextBox.databinding.add(EmpNo”);
- D. None of the above

37. DataSet supports which type of Architecture?

- A. Connection – Oriented Architecture
- B. Connection – Less Architecture**
- C. Both A and B
- D. None of the above



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38. The company uses Visual Studio .NET as its application development platform. You are creating a strong named MyAssembly that will be used in several applications. The assembly will be rebuilt frequently during the development cycle. You must ensure that every time MyAssembly is rebuilt it works properly with all applications that use it. You are required to configure the computer on which you develop the assembly such that each application uses the latest build of MyAssembly. Which of the following actions will you take to accomplish the task?

A. Add the element to the machine configuration file: `< developmentMode developerInstallation="true"/>`

B. Add the element to the configuration file of every application that uses the assembly: `< supportedRuntime version="*.*.*.*" />`

C. To point to the build output directory for the strong named assembly, create a DEVPATH environment variable.

D. Both A and C

39. You work as a Software Developer for uCertify Inc. The company uses Visual Studio .NET as its application development platform. You are creating an application that uses isolated storage to store user preferences using the .NET Framework. You use several assemblies for different purpose in the application. The application will be used by multiple users on the same computer. You are required to create a directory named MyPrefer in the isolated storage area that is scoped to the current Microsoft Windows identity and assembly. Which of the following code segments will you use to accomplish the task?

A. `IsolatedStorageFile store; store = IsolatedStorageFile.GetMachineStoreForAssembly(); store.CreateDirectory("MyPrefer");`

B. `IsolatedStorageFile store; store = IsolatedStorageFile.GetUserStoreForApplication(); store.CreateDirectory("MyPrefer");`

C. `IsolatedStorageFile store; store = IsolatedStorageFile.GetUserStoreForAssembly(); store.CreateDirectory("MyPrefer");`

D. `IsolatedStorageFile store; store = IsolatedStorageFile.GetMachineStoreForApplication(); store.CreateDirectory("MyPrefer");`



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40. Which line is invalid code? 1. interface Abc3 2.{ 3. int a; 4. void funca(int); 5. string funcb());

A. Line 1

B. Line 3

C. Line 4

D. Line 5

41. Your company has several branches worldwide. The company uses Visual Studio.NET 2005 as its application development platform. You are creating an application using .NET Framework 2.0. The application will be used by the USA branch. You are required to get information about USA. You do not want to represent fondness of users and depend on the users' language or culture. Which of the following code segments will you use to accomplish the task?

A. CultureInfo th= new CultureInfo("en-US");

B. CultureInfo th= new CultureInfo("US");

C. RegionInfo MyReg = new RegionInfo("US");

D. RegionInfo MyReg = new RegionInfo(new CultureInfo("en-US",false).LCID);

E. Both C and D

42. You need to encrypt the SOAP header. What is the correct method to use?

A. Inherit the web service class from the SoapHeaderEncrypt class

B. Custom SOAP headers

C. SOAP header extensions

D. Enable SSL for the XML web service and configure it to encrypt the headers

43. While updating, which method of the SqlCommand is best to use?

A. ExecuteQuery

B. ExecuteUpdate

C. ExecuteNonQuery

D. ExecuteCommand



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44. Your company uses Visual Studio .NET as its application development platform. You are creating an application using the .NET Framework. You are creating a module that backs up the important data on a different hard drive. You need to find out the type of file system and the drive free space by using the application. What will you do?

- A. Use the TotalSize property of the DriveInfo class.
- B. Use the TotalFreeSpace property of the DriveInfo class.
- C. Use the AvailableFreeSpace property of the DriveInfo class.
- D. Use the DriveFormat property of the DriveInfo class.

E. Both B and D

45. The page class file is generated when:

- A. Every time a page is accessed
- B. Whenever the assembly is recompiled and deployed**
- C. Whenever the configuration settings are changed
- D. None of the above

46. Which class does the remote object has to inherit?

- A. System.MarshalByRefObject**
- B. System.Web.UI.WebControls
- C. System.Globalization
- D. System.Web.Security

47. Which config file has all the supported channels/protocol supported by .Net?

- A. Web.config
- B. Machine.config**
- C. App.Config



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48. How do we call methods in remoting Asynchronously in .NET?

- A. By Using Delegates**
- B. By Using new Keyword
- C. By Using Pointer
- D. By Using Non Default Constructors

49. Which class does the remote object has to inherit?

- A. System.MarshalByRefObject**
- B. System.Web.UI.WebControls
- C. System.Globalization
- D. System.Web.Security

50. In the NUnit test framework, which attribute must adorn a test class in order for it to be picked up by the NUnit GUI?

- A. TestAttribute
- B. TestClassAttribute
- C. TestFixtureAttribute**
- D. NUnitTestClassAttribute

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ASP.NET

1. Why is Global.aspx used?
 - A. Declare Gobal Variables
 - B. Implement Application and Session Level events**
 - C. No Use
2. What class does the ASP.NET Web Form class inherit from by default?
 - A. System.Web.UI.Page**
 - B. System.Web.UI.Form
 - C. System.Web.GUI.Page
 - D. System.Web.Form
3. Which of the following ASP.NET object encapsulates the state of the client?
 - A. Session Object**
 - B. Application Object
 - C. Response Object
 - D. Server Object
4. How do you get information from a form that is submitted using the "post" method?
 - A. Request.QueryString
 - B. Request.Form**
 - C. Resquest.write
 - D. Request.Wriiten
5. An alternative way of displaying text on web page using
 - A. asp:label**
 - B. asp:listitem
 - C. asp:Button
6. The first event triggers in an aspx page is.
 - A. Page_init()**
 - B. Page_Load()
 - C. Page_click()
7. How do we create a FileSystemObject?
 - A. Server.CreateObject("Scripting.FileSystemObject")**
 - B. Create("FileSystemObject")
 - C. Create Object:"Scripting.FileSystemObject"
 - D. Server.CreateObject("FileSystemObject")
8. Default Session data is stored in ASP.Net.
 - A. StateServer
 - B. Session Object
 - C. InProcess**
 - D. all of the above



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9. Choose the form in which Postback occurs.
- A. HTMLForms
 - B. Webforms**
 - C. Winforms
10. Mode of storing ASP.NET session
- A. InProc
 - B. StateServer
 - C. SQL Server
 - D. All of the above**
11. Which of the following control is used to validate that two fields are equal?
- A. RegularExpressionValidator
 - B. CompareValidator**
 - C. equals() method
 - D. RequiredFieldValidator
12. Web.config file is used...
- A. Configures the time that the server-side codebehind module is called
 - B. To store the global information and variable definitions for the application**
 - C. To configure the web server
 - D. To configure the web browser
13. Difference between Response.Write() and Response.Output.Write().
- A. Response.Output.Write() allows you to buffer output
 - B. Response.Output.Write() allows you to write formatted output**
 - C. Response.Output.Write() allows you to flush output
 - D. Response.Output.Write() allows you to stream output
14. Which object can help you maintain data across users?
- A. Application Object**
 - B. Session Object
 - C. Response Object
 - D. Server Object
15. Which one of the following standard is used to connect client browsers with web servers?
- A. TCP/IP**
 - B. HTTP
 - C. HTML
 - D. ASP.NET
16. What is the property name of a GridView (or a DataGrid) that regulates the sorting?
- A. Sorting
 - B. EnableSorting
 - C. DisbaleSorting
 - D. AllowSorting**



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17. Which one of the following is used to validate an e-mail address pattern?
- A. Extended Expressions
 - B. Irregular Expressions
 - C. Regular Expressions**
 - D. None
18. Name the ASP.NET object that is used to get information about the web servers.
- A. Application Object
 - B. Server Object**
 - C. Response Object
 - D. Request Object
19. An ASP.NET page uses a Datagrid to display employee information. The Web application supports a large number of concurrent users who will be saving data from the grid back to the database. It is important that the Web application doesn't overwhelm the Web Server.
- A. Disable View State and don't use session state**
 - B. Use View State
 - C. Use URL munging
 - D. Disable ViewState and use Session State
20. How can you determine what version(s) of ASP.NET are running on a system?
- A. Response.Write(System.Environment.Version.ToString());**
 - B. Response.Write(Version.ToString());
 - C. Response.Write(System.Version.ToString());
 - D. not possible
21. Which class can be used to create an XML document from scratch?
- A. XmlConvert
 - B. XmlDocument**
 - C. XmlNew
 - D. XmlSettings
22. Which of these data source controls do not implement Caching?
- A. LinqDataSource**
 - B. ObjectDataSource
 - C. SqlDataSource
 - D. XmlDataSource
23. Which class can be used to perform data type conversion between .NET data types and XML types?
- A. XmlType
 - B. XmlCast
 - C. XmlConvert**
 - D. XmlSettings



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24. For your ASP.NET web application your graphics designer created elaborate images that show the product lines of your company. Some of graphics of the product line are rectangular, circular, and others are having complex shapes. You need to use these images as a menu on your Website. What is the best way of incorporating these images into your Website?
- A. Use ImageButton and use the x- and y-coordinates that are returned when the user clicks to figure out what product line the user clicked.
 - B. Use the Table, TableRow, and TableCell controls, break the image into pieces that are displayed in the cells, and use the TableCell control's Click event to identify the product line that was clicked.
 - C. Use the MultiView control and break up the image into pieces that can be displayed in each View control for each product line. Use the Click event of the View to identify the product line that was clicked.
 - D. Use an ImageMap control and define hot spot areas for each of the product lines. Use thePostBackValue to identify the product line that was clicked.**
25. In your ASP.NET 2.0 web application you want to display an image that is selected from a collection of images. What approach will you use to implementing this?
- A. Use the ImageMap control and randomly select a HotSpot to show or hide.
 - B. Use the Image control to hold the image and a Calendar control to randomly select a date for each image to be displayed.
 - C. Use the AdServer control and create an XML file with configuration of the control.**
 - D. Use an ImageButton control to predict randomness of the image to be loaded based on the clicks of the control.
26. If I'm developing an application that must accommodate multiple security levels though secure login and my ASP.NET web application is spanned across three web-servers (using round-robin load balancing) what would be the best approach to maintain login-in state for the users?
- A. Maintain the login state security through a database.**
 - B. Maintain the login state security through a Session.
 - C. Maintain the login state security through a View State.
 - D. All of the Above
27. In order to prevent a browser from caching a page which of these statements should be written?
- A. Response.Cache.SetNoStore();**
 - B. Response.Cache.SetNoServerCaching();
 - C. Response.Cache.SetNoCaching();
 - D. None of these



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28. Choose the system components that provide access to various system-level events that occurs on the server
- A. Message Queue
 - B. EventLog
 - C. FileSystemWatcher
 - D. All of the above**
29. Explain the significance of Server.MapPath
- A. Returns the Virtual Path of the web folder
 - B. Maps the specified virtual path to Physical path
 - C. Returns the physical file path that corresponds to virtual specified path**
 - D. All the above
30. To perform asynchronous data access, what must be added to the connection string?
- A. BeginExecute=true
 - B. MultiThreaded=true
 - C. MultipleActiveResultSets=true
 - D. Asynchronous=true**
31. You are developing a web application that is retrieving historical library information from database server and displays it to the user of your application. What cache strategy will give you the best performance?
- A. Use the output cache**
 - B. Use a cache object
 - C. Use the ASP.NET central cache
 - D. Use the client cache
32. What is the last stage of the Web forms lifecycle?
- A. Event Handling
 - B. Page_Load**
 - C. Validate
 - D. Page_Unload
 - E. Page_Init
33. What is the extension of a web user control file?
- A. .Asmx
 - B. .Ascx**
 - C. .Aspx
34. A project on which you are working calls for you to store small amount of frequently changing information about a page on the client. For this project, security is not a worry. Which is the best method to use?
- A. A Cookie
 - B. A Query String
 - C. A URL
 - D. A hidden form field**



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35. Which one cannot be accessed from all your pages on your website?
- A. Cookies
 - B. Sessions
 - C. ViewState**
 - D. Both A and B
36. What is the threading model used for ASP.NET?
- A. STA threading model
 - B. MTA theading model**
 - C. None
37. What interface must be implemented by .NET remote server object?
- A. ISerializable**
 - B. ISingleCall
 - C. IMarshalByValue
 - D. IUnknown
 - E. IMarshalByRef
38. A web application is used to display historical student information from a database server. Choose the best cache strategy that will give you the best performance.
- A. Use the client cache
 - B. Use the ASP.NET central cache
 - C. Use the cache object**
 - D. Use the output cache
39. Choose the best way of ensuring that your web method uses the cache.
- A. Add Cache = true to the WebMethod attribute
 - B. Add EnableCache = true to the WebMethod attribute
 - C. Add CacheTime = 300 to the WebMethod attribute**
 - D. Add CacheDuration = 300 as a parameter to the WebMethod attribute.
40. What is the fastest way to concat strings in ASP.NET?
- A. Code using Substring method of the string object
 - B. Code using Append method of the StringBuilder object**
 - C. Code using Concat method of the String object
 - D. Code using plus sign operator to concatenate the strings
41. In the Design view in Visual Studio 2005 of an ASP.NET web page, what is the easiest way to create an event handler for the default event of a ASP.NET server control?
- A. Open the code-behind page and write the code.
 - B. Right-click the control and select Create Handler.
 - C. Drag an event handler from the ToolBox to the desired control.
 - D. Double-click the control.**



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42. What is the name of the property of ASP.NET page that you can query to determine that a ASP.NET page is being requested not data being submitted to web server?
- A. FirstGet
 - B. Initialized
 - C. IncludesData
 - D. IsPostBack**
43. You are writing ASP.NET 2.0 Website that collects lots of data from users, and the data collection forms spread over multiple ASP.NET Web pages. When the user reaches the last page, you need to gather all of data, validate the data, and save the data to the SQL Server database. You have noticed that it can be rather difficult to gather the data that is spread over multiple pages and you want to simplify this application. What is the easiest control to implement that can be used to collect the data on a single Web page?
- A. The View control
 - B. The TextBox control
 - C. The Wizard control**
 - D. The DataCollection control
44. While developing ASP.NET 2.0 web application you want to display a list of parts in a master/detail scenario where the user can select a part number using a list that takes a minimum amount of space on the web page. When the part is selected, a DetailsView control displays all the information about the part and allows the user to edit the part. Which Web control is the best choice to display the part number list for this scenario?
- A. The DropDownList control**
 - B. The RadioButtonList control
 - C. The FormView control
 - D. The TextBox control
45. Session_End fires in which of these SessionState modes?
- A. Inproc**
 - B. StateServer
 - C. SQLServer
 - D. None
46. While developing ASP.NET 2.0 web application you have a DataSet containing a Customer DataTable and an Order DataTable. You want to easily navigate from an Order DataRow to the Customer who placed the order. What object will allow you to easily navigate from the Order to the Customer?
- A. The DataColumn object
 - B. The DataTable object
 - C. The DataRow object
 - D. The DataRelation object**



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47. In your ASP.NET web application you want to display a list of clients on a Web page. The client list displays 10 clients at a time, and you require the ability to edit the clients. Which Web control is the best choice for this scenario?
- A. The DetailsView control
 - B. The Table control
 - C. The GridView control**
 - D. The FormView control
48. You need to store state data that is accessible to any user who connects to your Web application. Which object should you use?
- A. Session
 - B. Application**
 - C. Response.Cookies
 - D. Response.ViewState
49. While writing code in Visual Studio 2005 you create a new instance of a ASP.NET TextBox server control, what do you need to do to get the TextBox to display on the Web page?
- A. Call the ShowControl method on the TextBox.
 - B. Add the TextBox instance to the form.Controls collection.**
 - C. Set the VisibleControl to true on the TextBox.
 - D. Execute the AddControl method on the Web page.
50. `Cache["dd"]="asp.net";`
What is the timeperiod of this Cache object?
- A. Infinite
 - B. 0 Seconds**
 - C. None of these

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