

M.Sc.(CA) -2nd semester
040020209 - Web Technology
Question Bank

Unit -1 : Introduction

Q: 1 - Answer in short.

1. Define is ASP.NET.
2. Justify "Is ASP.NET is a server-side technology".
3. Which events are fired when a page loads?
4. Differentiate Response.Write() and Response.Output.Write() methods.
5. Write use of <% %> symbols.
6. Give any two benefits and limitation of using Hidden fields.
7. What is the use of @Register directives?
8. Suppose web page contain one textbox control. By looking in .aspx file how will you identify whether it is html-sever or web-server control?
9. Can you set which type of comparison you want to perform by the CompareValidator control?
10. What is the use of causevalidation and validationgroup property of asp.net control?
11. What is the use of custom Validator?
12. Give one example where Checkboxlist control and Checkbox control can be used.
13. How can you convert any static HTML control into an HTML-server control?
14. What is the difference between a HyperLink control and a LinkButton control?
15. What does the "EnableViewState" property do?
16. Give the name of control for which post back property by default is enable (true)
17. How can you display all validation messages in one control?
18. What is the default timeout for a Cookie?
19. What is the difference between Server.Transfer and Response.Redirect? Why would I choose one over the other?
20. What is a purpose of validation group property?

Q: 2 - Answer following questions in detail.

1. Describe the complete lifecycle of a Web page.
2. How many types of cookies are available in ASP.NET? Explain each in brief.
3. Explain the Application and Session objects in ASP.NET.
4. Discuss the life cycle of a web page with relevant events.
5. What do you mean by post back? Explain various events occurred during post back. Also explain how you will apply view state at page level as well as control level.
6. State all the navigation controls in ASP.NET.
7. Explain Global.asax file along with example.
8. How to read and write configuration section of web.config file programmatically?
9. Write a code to display multiple selected item of listbox control.
10. Differentiate between ErrorMessage and Text Property of validation control along with example.

Q: 3 - Select the most appropriate answers from the given options.

1. When an ASP.NET file is placed on an IIS server and viewed through a browser, the resulting HTML page contains:
 - a) All ASP.NET code.
 - b) As much ASP.NET code as is in the ASP.NET file.
 - c) A mix of ASP.NET and HTML code.
 - d) All HTML code.
 - e) None of the above.
2. Which user action will not generate a server-side event?

- a.) Mouse Move
 - b.) Text Change
 - c.) Button Click
 - d.) Both a and b
 - e.) All of the above
3. Currently ASP.NET runs on which platform?
 - a) Windows
 - b) Linux
 - c) Windows and Linux
 - d) Any
 4. Where does the view state store information?
 - a.) HTML source
 - b.) Text file
 - c.) URL
 - d.) Both a and b.
 - e.) All of the above.
 5. Session_End fires in which of these SessionState modes?
 - a) Inproc
 - b) StateServer
 - c) SQLServer
 - d) None
 6. In which events controls are fully loaded?
 - a) Page_Init
 - b) Page_Load
 - c) Control events
 - d) Page_Unload events
 7. Which property allows ASP.NET controls to maintain their values when a page is posted to itself.
 - a) EnableViewState
 - b) MaintainValue
 - c) SaveValue
 - d) AutoPostBack
 8. 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
 9. What is the default value for the Method attribute in a ASP.NET server-side Form control
 - a) GET
 - b) POST
 - c) SOAP
 - d) SMTP
 10. Which statement among the one is correct?
 - a) The Params and Forms collection of the HttpRequest class are exactly same and theForms collection has been provided only for backward compatibility
 - b) The HttpRequest class does include the Params collection
 - c) The HttpRequest class does include the Forms collection
 - d) The difference between the Params and Forms collection of the HttpRequest class is that the Params collection also represents QueryStrings, ServerVariables, andCookies
 11. Which client-side technique can be disabled by the end-user?
 - a.) Cookies
 - b.) Query string

- c.) View state
 - d.) Both a and b.
 - e.) All of the above.
12. A Session variable is created:
- a.) when the application is first placed on a web server.
 - b.) when the web server is first started.
 - c.) when the first client requests a URL resource.
 - d.) every time a client requests a URL resource.
 - e.) every time a new client interacts with the web application.
13. When will a session be started in an application?
- a) Before Application Started
 - b) After Application Started
 - c) When the Client first sends a request to browser
 - d) While closing the application
14. Asp.net use _____ to maintain state of control across the consecutive roundtrip of the server
- a) Viewstate
 - b) Session
 - c) Cache
 - d) Javascript
15. The CLR provides _____ that defines the data type that are use by all .NET languages
- a) MSIL
 - b) CTS
 - c) BCL
 - d) DI
16. How does asp.net store sessionid by default?
- a) cookie
 - b) cache
 - c) global variable
 - d) url strings or in db
17. What is the Web.config file used for?
- a) To store the global information and variable definitions for the application
 - b) Configures the time that the server-side codebehind module is called
 - c) To configure the web server
 - d) To configure the web browser

Q: 4 - State whether the statement true or false.

- 1. In asp.net the second level compilation happen just before the page executed.
- 2. ASP.NET validation control execute on client side and server side.
- 3. You cannot validate HTML InputText control using validation controls.
- 4. C# is not "Strongly Typed" language.
- 5. ASP is a script-based programming language.
- 6. ASP.NET page are compiled not interpreted.
- 7. server.Transfer() method is slower than Response.Redirect() method.
- 8. For loop run faster in C# as compare to VB.NET.
- 9. All the .NET languages are compiled into another lower-level language before the code is executed.
- 10. ASP.NET can currently run only on Windows Platform.
- 11. Events in Web forms are processed before the "Page Load" event.
- 12. DateTime variable can be null.

Q: 5 - Fill in the blanks.

- 1. ASP.NET control begins with the _____ prefix.

2. Both ASP.NET web server control and HTML server control require the attribute _____ in order to be handled on the server rather than on the client.
3. All web server controls exist within _____ namespace.
4. Compare validator control can use either property _____ or _____.
5. If any of the validation control generate Error message the _____ property of page class is set to _____.
6. _____ control can also be used to check the date type of the value being validate and to check that the value being falls in the range indicated by other form controls
7. The button control _____ property set to _____ will ignore the validation controls and will posted back without validation.
8. All web controls are defined in the namespace _____ and derived from class _____.
9. The base class of all validation control is _____.
10. Validation Summary control display value of _____ property of all validation control which generate error.

Unit -2 : Data Access

Q: 1 - Answer in short.

1. List four database providers available in ASP.NET.
2. Which name space is use to connect to a Microsoft SQL Server database?
3. Which interface is used to specify connection properties and methods?
4. What is the information that is almost requiring in any connection string?
5. What is connection pooling?
6. What do you mean by disconnected data access architecture of ADO.net?
7. How to read multiple set using Data Reader?
8. Which method do you invoke on the DataAdapter control to load your generated dataset with data?
9. Which template must you provide, in order to display data in a Repeater control?
10. How can you provide an alternating color scheme in a Repeater control?
11. What property must you set, and what method must you call in your code, in order to bind the data from a data source to the Repeater control?
12. Can you edit data in the Repeater control?
13. In which situation you will use parameterized query and in which situation you will use stored procedure?
14. You have one stored procedure which returns 2 select statement results one by one, how to fetch second select statement result in web application?
15. Can you explain how to enable and disable connection pooling?

Q: 2 - Answer following questions in detail.

1. Draw ADO.NET architecture.
2. Explain Data Provider in detail.
3. Differentiate Data set and data reader. Explain with example.
4. Write C# code to use transaction in ADO.NET.
5. What is numeric, date, time format strings?
6. Explain gridview styles in brief.
7. Discuss any five event of gridview.
8. Explain Listview templates.
9. Explain various objects in DataSet.
10. How to access connectionString from web.config? Discuss advantages of this approach.
11. With code snippet explain how to add primary key constraint in DataTable.
12. With example, explain Command Builder.

Q: 3 – Select the most appropriate answers from the given options.

1. What does ADO stand for?
 - a) Advanced Data Object
 - b) Active Data Object
 - c) ActiveX Data Object
 - d) ActiveX Directory Object
2. What is the Best approach that has to be used, if you need continuous connection to the Database?
 - a) ADO.NET
 - b) ADO
 - c) BOTH
 - d) None of the above
3. Which of the following class is not included in data provider?
 - a) Connection
 - b) Data Adapter
 - c) Dataset
 - d) Data Reader
4. Which of the following illustrates the benefit of ADO.NET?
 - a) Interoperability
 - b) It uses DataSet to represent data in memory that can store data from multiple tables and multiple sources.
 - c) Disconnected data access
 - d) All of above
5. In a connection string, _____ represents name of the database.
 - a) DataSource
 - b) Initial Database
 - c) Initial Catalog
 - d) Catalog Database
6. Which object of ado.net has the best performance, for retrieving the data
 - a) DataReader
 - b) DataAdapter
 - c) DataSet
 - d) DataTable
7. Which of the following name space is used to connect with oracle database?
 - a) System.Data
 - b) System.Data.Oracle
 - c) System.Data.OracleDB
 - d) System.Data.Oracle
8. If we are not returning any records from the database which method is used
 - a) ExecuteReader()
 - b) ExecuteScalar()
 - c) ExecuteNonQuery()
 - d) ExecuteXmlReader()
9. Which of the following column provides selection or editing buttons in gridview?
 - a) BoundField
 - b) ButtonField
 - c) CommandField
 - d) TemplateField
10. Which of the following date format string is used to show date as 10/30/2008?
 - a) {0:f}

- b) {0:D}
- c) {0:F}
- d) {0:d}

Q: 4 – State whether the statement true or false.

1. We cannot get information out of database without directly using the ADO.NET classes.
2. ADO.NET uses XML to transfer data across applications and data source.
3. The classes of ADO.NET are defined in the System.Data namespace.
4. In ADO.Net command object, we can have more than one ReturnValueparameter.
5. We can add multiple rows in DataReader.
6. Ado.net is faster than ADO for disconnected recordsets.
7. It is not required to open the connection if I am using data adapter.
8. The ExecuteScalar() method returns the value stored in the last field of the first row of a result set generated by the command's SELECT query.
9. By default value of "AllowPaging" is true in gridview.
10. WebMatrixSqlDataSourceControl work with a MySQL connection.

Q: 5 – Fill in the blanks.

1. When we need to retrieve only a single value from the Database, _____ Method is efficient.
2. To populate the data set, _____ method of DataAdapter is used.
3. Default _____ maximum number of connections allowed in the pool.
4. _____ object provide connection to the database.
5. _____ method indicates that a transaction was unsuccessful.
6. For insert, update, and delete SQL commands, _____ method is used.
7. To check whether connection is open or not, _____ property is used.
8. _____ Performs pattern matching with string data types in DataView.
9. In GridView _____ column displays text from a field in the data source.
10. We need to set _____ style to apply additional formatting to every other row.