

Advanced Web Technology and DotNet

QUESTION BANK

Unit – 1 Introduction to .NET Framework

1. What is .NET Framework? What are the advantages of .NET?
2. Difference between JAVA and .NET.
3. What is CLR? Explain program execution life cycle of .NET.
4. Why CLR is called as a heart of .NET.
5. What are the features supported by CLR?
6. What are the main components of .NET Framework?
7. What is JIT? Explain types of JIT.
8. What is FCL? Explain any five libraries supported by .NET.
9. What is CLS? Explain with example.
10. What is CTS? Explain with example.
11. What is MSIL/ Managed Code?
12. Difference between Managed and Unmanaged Code.
13. What is Assembly? Explain components of Assembly.
14. What are the different types of Assemblies in .NET?
15. What is Metadata and Manifest?
16. Private Assembly v/s Shared Assembly
17. Different types supported by .NET.
18. What is GAC?
19. How GC works in .NET?
20. What are the security features supported by .NET?
21. How .NET is called platform and processor independent?
22. What are the open standards supported by .NET?
23. What is AppDomain in .NET? Give any two advantages.

Unit – 2 OOP C# / Unit – 3 Databases and C#

24. Justify the statement “C# is fully object oriented language”.
25. Any three OOP features supported by C#.
26. Any five data types in .NET with its CTS types.
27. What is the difference between type conversion and type casting?
28. What is Boxing and Unboxing?
29. Types of operators supported by .NET
30. Control Statement in C#.
31. What is Structure? Class v/s Structure
32. Array v/s Structure
33. Types of Array in C#.
34. Any five properties of System.Array class.
35. What is Jagged Array?
36. What is collection? Types of Collection in C#.
37. Generic v/s Non Generic Collection
38. Array v/s ArrayList
39. Array v/s Collection
40. All the collection belongs to which namespace?
41. Difference between Stack and Generic Stack.
42. Any five methods of String Class.
43. Any five methods of Date Class.
44. How to find a Day and Month from the given date?
45. Access modifiers supported by C#.
46. Explain constant with its features.
47. Types of fields in C#.
48. Constant v/s Static
49. What is Constructor and types of constructors in C#
50. Different ways of passing parameters in C#.
51. Pass by value v/s Pass by reference
52. Rules for declaring and passing parameter array in C#.
53. Pass by reference v/s Output parameter
54. Explain constructor overloading and constructor overriding.

55. Features of private constructor.
56. Features of static constructor in C#.
57. Class v/s Static Class
58. What is Operator overloading? Which operators are not overloaded in C#.
59. Rules for overloading operators.
60. What is property and advantages to create properties in C#?
61. How to create readonly property?
62. Properties v/s Fields
63. Properties v/s Methods
64. What is inheritance? Importance of inheritance
65. Types of inheritance
66. How the default constructor called in multilevel inheritance.
67. How can you change the execution sequence of parameterized constructor in inheritance?
68. Which keyword is used to access hidden members of base class.
69. What is sealed class?
70. Explain 'virtual' and 'override' keyword.
71. Rules for declaring virtual methods in C#.
72. What is Abstract Class and Abstract method?
73. Virtual Method v/s Abstract method
74. What is interface? Rules for declaring interface.
75. Rules for declaring try, catch and finally block.
76. Role of throw keyword in exception handling.
77. Any three exceptions occurred in C#.
78. All the exceptions are derived from which class.
79. Sequential v/s Random Access File
80. Any five I/O classes.
81. Explain StreamReader and StreamWriter
82. Explain StringReader and StringWriter
83. Write a syntax to create and write file.
84. Which methods are used to get drives and directories in C#?
85. Any three methods of Path Class.

86. Which method is used to read random character of the file?
87. What is Generics in C#?
88. Advantages to create generic methods in C#.
89. What is Serialization and Deserialization in C#?
90. Types of Serialization in C#.
91. Which classes are used to serialize the objects in C#?
92. Which attributes are used to prevent Binary Serialization and XML Serialization?

Unit – 4 Web Applications in ASP.NET

93. Any five features of ASP.NET
94. Elements of ASP.NET page.
95. Any three directives of ASP.NET Page.
96. What is inline code and inline expression?
97. Events of Page Life Cycle.
98. What is postback page and round trip?
99. How to detect postback page?
100. What is Cross Page posting and how to detect it?
101. Explain Compilation process and types of compilation process in ASP.NET.
102. What is dynamic compilation?
103. Types of controls supported by ASP.NET.
104. Any five common properties supported by ASP.NET controls
105. Difference between Label and Literal control.
106. Explain AutoPostBack property.
107. Any five properties of Image map control.
108. Any five properties of Calendar control.
109. What is Validation? Explain types of validation in ASP.NET.
110. Types of Validation controls in ASP.NET.
111. Any five properties of Base Validator class.
112. Which property is used to fire client side and server side validation both?
113. Explain Page.IsValid property.
114. Explain ValidationGroup property with example.
115. What are the different ways to render error messages?

116. Any two validation control with example.
117. Use of Adrotator control. Explain it with properties.
118. Different objects of .NET Data providers.
119. Which namespace is used to include Sql Data provider?
120. Connected Environment v/s Disconnected Environment
121. Connection class with five properties.
122. What is Dataset?
123. Data Reader v/s Dataset
124. Use of command class with its properties and methods.
125. Different DataSource controls supported by ASP.NET.
126. Use of SqlDataSource control with properties and methods.
127. Types of parameters supported by SqlDataSource Control.
128. Types of Data Access Controls in ASP.NET.
129. Any three list controls with its properties.
130. Properties and methods of Gridview control.
131. Templates supported by Gridview control.
132. Different fields supported by Gridview control.

