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Question Paper Code: 49209

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

Computer Science and Engineering

14UCS909 - C# and .NET FRAMEWORK

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Size of "Long" data type in C#
(a) 8 (b) 4 (c) 2 (d) 1
2. Choose the correct statements about enum used in C#.NET?
(a) An enum variable cannot have a private access modifier
(b) An enum variable can be defined inside a class or a namespace
(c) An enum variable cannot have a protected access modifier
(d) An enum variable cannot have a public access modifier
3. Choose the statements which makes delegate in C#.NET different from a normal class
(a) Delegates in C#.NET is a base class for all delegates type
(b) Delegates created in C#.NET are further not allowed to derive from the delegate types that are created
(c) Only system and compilers can derive explicitly from the Delegate or Multicast Delegate class
(d) None of these

4. A type of class which does not have its own objects but acts as a base class for its subclass is known as
 - (a) Static class
 - (b) Sealed class
 - (c) Abstract class
 - (d) None of these
5. 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
6. 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
7. In ASP.NET application DLL files are stored in
 - (a) APP_Code
 - (b) APP_Data
 - (c) Bin
 - (d) APP_LocalResources
8. Application_Start event is available in which file?
 - (a) Global.asax
 - (b) Local.asax
 - (c) Web.config
 - (d) None of these
9. Contents of assembly file can be investigated using
 - (a) ILDASM.exe
 - (b) ILDASM.dll
 - (c) ILDASM.inc
 - (d) ILDASM.aspx
10. The property signifies “Obtains a Module object that represents the module (an executable file) in which the reflected type resides”. Choose the property which specifies the following statement:
 - (a) Type DeclaringType
 - (b) int MetadataToken
 - (c) Module Module
 - (d) Type ReflectedType

PART - B (5 x 2 = 10 Marks)

11. List the Characteristics of C#.
12. What is delegate? List the steps involved in creation and usage of delegates.
13. Recall list bound controls. Give examples.
14. What is Web services.
15. Distinguish the two types of attributes in .NET.

PART - C (5 x 16 = 80 Marks)

16. (a) (i) Discuss the Array, List and Dictionary in C#. (8)
- (ii) Write a program to sort n numbers in ascending and descending order using array. (8)

Or

- (b) Demonstrate method overloading in C# with suitable example program. (16)

17. (a) Describe the concept of delegates with an example program. (16)

Or

- (b) Develop a program in C# for calculating tax or IT and ST using classes `salestaxcalculator(itemname, itemprice, calculatetax(), display())`, `Incometax(ename, totsaalry, taxableincome, display())` along with abstract class `TaxCalculator(tax)`, abstract method `calculateTax()`. (16)

18. (a) Describe the steps for accessing data with ADO.NET. Write a C# program to manage friends address book. (16)

Or

- (b) Illustrate the steps to create the SampleWinApp Windows applications on .NET and give examples of connected environment. (16)

19. (a) (i) Illustrate the steps to create a web application in C# using ASP.NET. (8)

- (ii) Explain the advantages of a Web Forms based web applications. (8)

Or

- (b) Develop an ASP.NET/C# application with two text box controls (Company name and Contact name) and a button control. After submitting the form, the application displays the Company name and Contact name on the screen. (16)

20. (a) Explain the concept of reflection with an example program. (16)

Or

- (b) Discuss the protocols used for Web services in .Net. (16)

