**Reg. No. :**

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**Question Paper Code: 49023**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

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.  What does the term 'immutable' means in term of string objects?

    (a) We can modify characters included in the string
    (b) We cannot modify characters contained in the string
    (c) We cannot perform various operation of comparison, inserting, appending etc
    (d) None of these

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.  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

4. The capability of an object in C sharp to take number of different forms and hence display behavior as according is known as

    (a) Encapsulation                (b) Polymorphism

    (c) Abstraction                  (d) None of these

5. Syntax for closing and opening the connection in ADO.net is

    (a) sqlconn.Open( ) and sqlConn.close( )     (b) sqlConn.open( ) and sqlConn.Close( )

    (c) sqlConn.Open( ) and sqlConn.Close( )    (d) None of these

6. 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

7. Select the correct statement about an exception?

    (a) It occurs during loading of program  (b) It occurs during Just-In-Time compilation

    (c) It occurs at run time              (d) All the above

8. Application_Start event is available in which file?

    (a) Global.asax               (b) Local.asax

    (c) Web.config               (d) None of these

9. 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

10. Which utility can be used to compile managed assemblies (like Dll's and EXE) into native code

    (a) Gacutil       (b) Ngen       (c) Sn          (d) Dumpbin

PART - B (5 x 2 = 10 Marks)

11. Define variable size array.

12. What is delegate? List the steps involved in creation and usage of delegates.

13. Define Data Set and Data Reader.

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14. Describe the terms UDDI, WSDL and SOAP.

15. Differentiate private assemblies and shared assemblies.

PART - C (5 x 16 = 80 Marks)

16. (a) Explain in detail about Operators in C# programming language with suitable example. (16)

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) Write a C# Program to illustrate Handling an Event Declared in an Interface. (16)

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

Or

(b) Write a database application to display the details of employee table details in a data grid control using ADO.NET. (16)

19. (a) Create a simple Web Service that converts the temperature from Fahrenheit to Celsius, and vice versa using ASP.NET. (16)

Or

(b) (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)

20. (a) Discuss the protocols used for Web services in .Net. (16)

Or

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

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