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**Question Paper Code: 41283**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 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. Size of "Long" data type in C#  
(a) 8                      (b) 4                      (c) 2                      (d) 1
2. 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
3. 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
4. For a class student consisting of indexer, which among the following declaration of indexers runs the code successfully? student a = new student( ); a[1,2] = 20;  
(a) class student  
    { int[, ] p = new int[6, 6];  
    public property WriteOnly int this[int i, int j]  
    { set {

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a[i, j] = value;
} } }
```

```
(b) class student
{
int[,] a = new int[6, 6];
public int this[int i, int j]
{ set {
a[i, j] = value;
} } }
```

```
(c) class student
{
int[,] a = new int[6, 6];
public int property WriteOnly
{ set {
a[i, j] = value;
} } }
```

(d) None of these

5. \_\_\_\_\_ allow to encapsulate discrete units of functionality and provide a graphical representation of that functionality to the user.
- (a) Control                      (b) Object                      (c) Class                      (d) Graphics
6. 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
7. In ASP.NET application DLL files are stored in
- (a) APP\_Code                      (b) APP\_Data  
(c) Bin                              (d) APP\_LocalResources
8. 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
9. 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

10. Choose the following security features can .NET applications avail?

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

(a) 1, 4, 5                      (b) 2, 5                      (c) 1, 4                      (d) 3, 4

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.

14. What is Web services.

15. Differentiate private assemblies and shared assemblies.

PART - C (5 x 16 = 80 Marks)

16. (a) Write a C# program to get the number of elements actually contained in the Array List. (16)

Or

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

17. (a) Briefly describe the exception handling mechanisms in C# with proper example program. (16)

Or

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

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

Or

(b) Explain in detail about Multiple Document Interface and how to create menu using Multiple Document Interface in .NET. (16)

19. (a) (i) How to create XML File? Explain it with example. (8)

(ii) Summarize the validator controls and their applications in ASP.NET. (8)

Or

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

20. (a) (i) Discuss how performance of web services can be monitored. (8)

(ii) Explain with detailed note on Remoting. (8)

Or

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

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