CBCS Scheme

USN ☐☐☐☐☐☐☐☐☐☐   **15CS564**

Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018
Dot Net Framework for Application Development

Time: 3 hrs.   Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

1   a.   Explain general structure of C# program with suitable example.   **(06 Marks)**
    b.   Define exception. List any four built in classes to handle exception.   **(04 Marks)**
    c.   Write a C# program to generate Fibonacci series upto 'n'. Read 'n' from console device.
                                                   (06 Marks)

OR

2   a.   List the different types of operators in C#. Explain any one type of operation in brief.
                                                   (05 Marks)
    b.   Define method. List and explain different method parameters.   **(05 Marks)**
    c.   Write a C# program to read two arguments as parameter and return four output values as addition, subtraction, product and division as output parameter from a method.   **(06 Marks)**

Module-2

3   a.   Define constructor? Write a C# program to demonstrate construction overloading.   **(08 Marks)**
    b.   With an example, explain 'is' and 'as' operator.   **(04 Marks)**
    c.   Give difference between structure and class.   **(04 Marks)**

OR

4   a.   Define Jagged array? Explain with example how jagged arrays are declared.   **(06 Marks)**
    b.   Write a program in C# to initialize an array with 10 integer elements. Write a method that accepts the array and returns the sum of array elements.   **(06 Marks)**
    c.   Explain boxing and unboxing concept with example.   **(04 Marks)**

Module-3

5   a.   Define method overriding. Explain different forms of override a method with example.
                                                   (08 Marks)
    b.   Write a C# program that has class "TwoDshape" with fields dim1 and dim2 and a method area( ). Inherit two classes "Triangle" and "Rectangle" for "TwoDshape" and override method area( ) to calculate area of triangle and rectangle respectively. Instantiate objects of all classes.   **(08 Marks)**

OR

6   a.   Define and explain a abstract and sealed class with example.   **(07 Marks)**
    b.   Explain the steps taken by the garbage collector to destroy objects.   **(05 Marks)**
    c.   Mention the difference between interface and class.   **(04 Marks)**

Module-4

7   a.   Define property. List and explain with example different types of properties.   **(06 Marks)**
    b.   Compare Indexers and arrays with example.   **(06 Marks)**
    c.   Write an algorithm to insert an item into an ordered binary tree.   **(04 Marks)**

OR

8   a.   Explain the stack <J> collection class with example.   (08 Marks)
    b.   List and explain different operators used to access and manipulate individual bits in 'int' type.   (08 Marks)

Module-5

9   a.   Explain how to implement enumerator using iterator.   (06 Marks)
    b.   Write a note on delegates.   (04 Marks)
    c.   Writes Language – Integrator Query to selecting and filtering data.   (06 Marks)

OR

10 a.   Define event. Explain how event is subscribed and unsubscribed with example.   (08 Marks)
    b.   Write a C# program to overload increment and decrement operator.   (08 Marks)

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