CBCS Scheme

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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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