

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)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.



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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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