

# CBCS SCHEME

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15CS564

## Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019 Dot Net Frame Work 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 Namespaces and Assemblies in brief. (04 Marks)
- b. Explain concept of named arguments with programming example. (06 Marks)
- c. Write a C # program to find factorial of a given number. (06 Marks)

OR

- 2 a. Explain how to use while, for, and do statements to execute code repeatedly while some Boolean condition is true with an example. (08 Marks)
- b. Define Exception. Explain how to catch and handle exceptions by using the try and catch constructs with programming example. (08 Marks)

### Module-2

- 3 a. Explain Anonymous classes, with an example. (04 Marks)
- b. Explain Boxing and Unboxing, with an example. (06 Marks)
- c. Explain how arguments are passed as method parameters by using 'ref' and 'out' keywords. (06 Marks)

OR

- 4 a. Define Constructor. Explain constructor overloading with a programming example. (08 Marks)
- b. Write a C # program to compute row sum and column sum of rectangular array. (08 Marks)

### Module-3

- 5 a. Explain the concept of params array with programming example. (06 Marks)
- b. Define Inheritance. Explain how to create a derived class that inherits features from a base class, with an example program. (06 Marks)
- c. Explain Abstract class and Abstract method, with an example. (04 Marks)

OR

- 6 a. Explain how to manage system resources by using Garbage collector. (06 Marks)
- b. Explain how to implement interface in a class with programming example. (06 Marks)
- c. Explain Sealed classes and Sealed methods in brief. (04 Marks)

### Module-4

- 7 a. Explain read – only and write – only properties with an example. (04 Marks)
- b. Compare indexers and arrays with an example. (04 Marks)
- c. Explain Binary tree Algorithm, with an example. (08 Marks)

OR

- 8 a. What is an Indexer? List and explain set of operators provided by C # that you can use to access and manipulate the individual bits in an int. (08 Marks)
- b. Explain Linked list < T > collection class with programming example. (08 Marks)

**Module-5**

- 9 a. Explain how to implement an enumerator manually with an example. (06 Marks)  
b. Define Delegate. Explain how to declare delegate with an example. (05 Marks)  
c. Explain how to handle an event by using a delegate, with an example. (05 Marks)

**OR**

- 10 a. What is LINQ? Explain LINQ to selecting and ordering data, with an example. (08 Marks)  
b. Explain Operator overloading and their constraints with a programming example. (08 Marks)

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