

# CBCS SCHEME



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## Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Dot Net Framework for Application Development

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Explain namespaces with programming example. (05 Marks)
- b. Define variable. Explain the details of variable like declaration, initialization, accepting the value and also rules for it. Give simple examples. (07 Marks)
- c. Explain the method with syntax. Write a C# program for method overloading and also give explanation for overloading. (08 Marks)

OR

- 2 a. Write a C# program for factorial of a given number using while and for loop. (06 Marks)
- b. Explain conditional logical operators and write C# program for the same. (06 Marks)
- c. Describe the try, catch, finally and throw keywords with a programming example. (08 Marks)

### Module-2

- 3 a. Define constructors. Explain constructor overloading with programming example. (06 Marks)
- b. Describe the Static class, Static method and data with an example. (06 Marks)
- c. Explain value type and reference type and boxing and unboxing with programming example. (08 Marks)

OR

- 4 a. Briefly explain "ref" and "out" keywords with examples. (05 Marks)
- b. Define enumerations with syntax. Write C# program that display month name and its numeric value using enum. (07 Marks)
- c. Describe the structures and jagged arrays with examples. (08 Marks)

### Module-3

- 5 a. Explain the concept of params array with programming example. (06 Marks)
- b. Define inheritance. Explain new methods virtual methods and override methods with examples in inheritance. (08 Marks)
- c. Explain the use of extension methods in C# with programming example. (06 Marks)

OR

- 6 a. Define interface. Demonstrate implementation of an interface with programming example. (06 Marks)
- b. Explain abstract class and abstract method, with syntax and programming example. (06 Marks)
- c. Explain the garbage collector along with working procedure. And also explain the managing system resources by garbage collector. (08 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.

**Module-4**

- 7 a. Describe the implementation of encapsulation by using methods and properties in a class with programming example. (08 Marks)
- b. List and explain the properly restrictions in C# encapsulation. (05 Marks)
- c. Define indexer. Demonstrate the use of indexers in C# with programming example. (07 Marks)

**OR**

- 8 a. Define Generic. Write a C# program for swapping of two numbers using generic method. (06 Marks)
- b. Define binary tree. Build a binary class by using generics. (05 Marks)
- c. Define collection class. List different collection classes and explain any one in detail. (09 Marks)

**Module-5**

- 9 a. Explain implementation of an enumerator by using iterator. (06 Marks)
- b. Define delegate. Explain the use of delegate in C# with an programming example. (06 Marks)
- c. Explain declaring, subscribing, unsubscribing and raising with respect to an event. (08 Marks)

**OR**

- 10 a. Define LINQ. Explain LINQ to selecting, filtering and ordering data with an example. (10 Marks)
- b. Explain operator overloading constraints. Write a C# program for operator + overloading. (10 Marks)

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