

BACHELOR OF COMPUTER APPLICATIONS (C.B.C.S.) (2014 COURSE)
B.C.A. Sem-V : WINTER : 2021
SUBJECT: C# PROGRAMMING

Day : Wednesday
Date : 12-01-2022

W-11052-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 100

N. B.

- 1) Attempt **ANY FOUR** questions from Section – I and **ANY TWO** questions from Section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q. 1** What is inheritance? Explain different types of inheritance supported by C#. (15)
- Q. 2** Define polymorphism. Explain method overriding with example. (15)
- Q. 3** What is abstraction? Write a C # program to implement abstract class. (15)
- Q. 4** What is Delegate? Explain single cast delegate with example. (15)
- Q. 5** What is static constructor? Explain using suitable example. (15)
- Q. 6** Explain the concept of hierarchical inheritance along with suitable example. (15)
- Q. 7** Write short note on **ANY THREE** of the following: (15)
- a) CLR
 - b) LINQ
 - c) Indexers
 - d) 'this' reference

SECTION - II

- Q. 8** a) Write various data types of C#. (10)
- b) Write a C # program to find factorial of given number using recursion. (10)
- Q. 9** What is interface? Explain the concept of explicit interface with example. (20)
- Q.10** What is collection initializer? Write a C# program to demonstrate the use of collection initializer. (20)

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