

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-V : : SUMMER - 2022
SUBJECT : C# PROGRAMMING

Day : Friday
Date : 27-05-2022

S-18789-2022

Time : 02:00 PM-05:00 PM
Max. Marks : 60

N.B.

- 1) Q.4 from Section – I is **COMPULSORY**.
- 2) Answer any **TWO** questions from Q.1, Q.2, Q.3 in Section – I.
- 3) Answer any **TWO** questions from Q.5, Q.6, Q.7 in Section – II.
- 4) All questions carry **EQUAL** marks.
- 5) Answers to both the sections should be written in the **SAME** answer books.
- 6) Draw neat and labelled diagrams **WHEREVER** necessary.

SECTION – I

- Q.1** Answer the following (**6 x 2 = 12 Marks**)
- a) What is the important components of DOT NET? Explain what is common type system (CTS)?
 - b) Differentiate between C++ and C#.
- Q.2** Answer the following (**6 x 2 = 12 Marks**)
- a) Explain the use of private constructor and static constructor in C#
 - b) Explain the textbox and label control in visual studio with example.
- Q.3** Explain the following (**6 x 2 = 12 Marks**)
- a) What are the data providers in ADO.NET framework?
 - b) What is custom exception and how to raise it in C#?
- Q.4** Write short notes on **ANY THREE** of the following (**4 x 3 = 12 Marks**)
- a) Just in time compilation
 - b) Type conversion in C#
 - c) Nesting of classes in C#
 - d) Data adapter
 - e) Using exception for debugging

SECTION – II

- Q.5** Answer the following (**6 x 2 = 12 Marks**)
- a) Write a c# program to find if a given string is palindrome or not?
 - b) Write a c# program to find the sum of digits of a given positive integer.
- Q.6** Answer the following (**6 x 2 = 12 Marks**)
- a) Write a c# program to find the factorial of a given number.
 - b) Write a c# program to print transpose of matrix.
- Q.7** Explain the following (**6 x 2 = 12 Marks**)
- a) Write a c# program to find the roots of quadratic equation $ax^2 + bx + c = 0$, read coefficient a,b,c from users.
 - b) Write a c# program to demonstrate use of copy constructors?

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