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

Day: Friday
Date: 10/6/2022

S-18753-2022

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, 2, 3 in Section I.
- 3) Answer ANY TWO questions from Q 5, 6, 7 in Section II.
- 4) All question CARRY EQUAL marks.
- 5) Answers to Both the sections to be written in SAME answer book.
- 6) Draw a labeled diagram WHEREVER necessary.

SECTION - I

- Q.1) Answer the following: (6 Marks X 2 = 12)
 - a) Explain following input and output functions with suitable example: 1) getchar() 2) putchar()
 - b) How the do-while loop varies from the while loop?
- Q.2) Answer the following: (6 Marks X = 12)
 - a) What is recursion? Write a recursive function in C to display factorial of given number.
 - b) Define operator. Explain arithmetic and logical operators in C.
- Q.3) Explain the following: (6 Marks X = 12)
 - a) Explain the concept of array of structure with appropriate example.
 - b) What is pointer? Explain various arithmetic operations can be performed on pointer with example.
- Q.4) Write short notes on the following: Attempt ANY THREE (4 Marks X = 12)
 - a) Implicit and explicit type conversion
 - b) switch statement
 - c) A concept of Call by value
 - d) Standard library functions of strings
 - e) Static storage class

SECTION - II

- Q.5) Answer the following: (12 Marks X 1 = 12)
 - a) Write a C program to read and display the information of 10 students in the class. Then edit the details of particular student and redisplay the entire information.
- Q.6) Answer the following: (6 Marks X 2 = 12)
 - a) Write a function Factorial() to find factorial of given number.
 - b) Write a program in C to read n number of values in an array and display the sum of all elements.
- Q.7) Explain the following: (6 Marks X = 12)
 - a) Write a C program to print following Floyd's triangle.

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b) Write a C program to read and print student details using structure pointer.
