

CDOE
BACHELOR OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
B.C.A. SEM-I : WINTER :- 2021
SUBJECT: C PROGRAMMING-I

Day : Wednesday

Date 9/2/2022

W-21511-2021

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 relational operators with suitable examples.
- b) Describe the concept of following control statements: 1) Sequential statements 2) Selection statements 3) Iteration statements

Q.2) Answer the following: (6 Marks X 2 = 12)

- a) Define function. Explain the concept of call by value with suitable example.
- b) Explain about the following string handling functions with example programs.
(i) strlen (ii) strcpy (iii) strcmp

Q.3) Explain the following: (6 Marks X 2 = 12)

- a) Explain the concept of nested structure with appropriate example.
- b) Define pointer. Write a C program using pointer to swap the values of two integer numbers.

Q.4) Write short notes on the following: Attempt ANY THREE (4 Marks X 3 = 12)

- a) Formatted input and output functions
- b) Jumping statements -break and continue
- c) User defined and Built in functions
- d) Declaration and initialization of 2D arrays
- e) Variables and Constants in C

SECTION - II

Q.5) Answer the following: (12 Marks X 1 = 12)

Write a C program to stores and display the information (name, roll no and percentage) of 10 students using array of structure.

Q.6) Answer the following: (6 Marks X 2 = 12)

- a) Write a function MaximumOfThree() which returns the maximum of its three parameters using C.
- b) Write a C program to sort elements in ascending and descending order stored in an array.

Q.7) Explain the following: (6 Marks X 2 = 12)

- a) Write a C program to display following number pattern.

54321
4321
321
21
1

- b) Write a C program using pointers to compute the sum of all elements stored in an array.
