

M.C.A. SEMESTER-I (CBCS 2018) : SUMMER - 2019

SUBJECT: C PROGRAMMING

Day: Monday
Date: 15/04/2019

S-2019-2149

Time: 02.00 PM TO 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 questions CARRY EQUAL marks.
- 5) Answers to Both the sections to be written in *SAME* answer books.
- 6) Draw a labeled diagram WHEREVER necessary.

SECTION - I

Q.1) Answer the following: (6 Marks X 2 = 12)

- a) Explain the process of compilation of any C language program with suitable example.
- b) What are the arithmetic operators?

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

- a) Give the difference between if-then statement and switch statement with example.
- b) What is an array? Why array is used in c program? Explain one dimensional array.

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

- a) Explain the following for C function arguments and return values.
 1. C function with arguments and with return value
 2. C function with arguments and without return value
- b) What is pointer? Explain the concept of pointer to arrays.

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

- a) What is linker? How it works?
- b) Write short note on unary and binary operators.
- c) Nested loops.
- d) Memory leaks and logical errors in dynamic memory allocation.
- e) Passing structure to function.

SECTION - II

Q.5) Answer the following: (6 Marks X 2 = 12)

- a) Write a C Program to find sum of two numbers.
- b) Write a program to find greatest of three numbers.

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

- a) Write a program reads characters until a newline is entered and store them in an array and terminates the string with a NULL character and then prints out the string.
- b) Write a program to find square of a number using functions

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

- a) Write a program to convert binary number to decimal and vice versa using functions.
- b) Explain enumerated data types in C.
