

**M. Sc. Bioinformatics Sem.-I (C.B.C.S.) (2013 Course) / Advanced
Diploma in Bioinformatics Sem.-I (C.B.C.S.) (2013 Course) :
SUMMER - 2019**

SUBJECT: C PROGRAMMING AND DATA STRUCTURE

Day: Friday
Date: 05/04/2019

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

S-2019-1461

N.B:

- 1) **Q. No.1** and **Q. No.5** are **COMPULSORY**. Attempt **ANY TWO** from the remaining from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to the both the sections should be written in **SAME** answer books.
- 4) Draw neat labeled diagram **WHEREVER** required.

SECTION-I

- Q.1** Write a short notes on **(ANY FIVE):** **(10)**
- a) Type casting and Type conversion
 - b) Syntax of switch case with example
 - c) Explain break and return keyword
 - d) What is constant? Give its classification
 - e) Difference between assignment and equal operators
 - f) Explain any four keyword in C
- Q.2** Answer the following questions: **(10)**
- a) Discuss various data types supported by C and mention size in bytes.
 - b) Classify operators in C language based on number of operands with suitable example.
- Q.3** Answer the following: **(10)**
- a) Compare and contrast flow chart and algorithm.
 - b) Draw flowchart to print the range of 10 user input number where range is difference between largest and smallest number.
- Q.4** Answer the following: **(10)**
- a) Write a program to print multiplication table of 1 to 10.
 - b) Write a short note on looping structure available in C language.

SECTION-II

- Q.5** Answer the following questions **(ANY FIVE):** **(10)**
- a) Syntax of function.
 - b) What is file pointer?
 - c) Are the expressions *ptr ++ and ++* ptr same?
 - d) Explain data structure and its importance.
 - e) Preprocessor directive.
 - f) What is the purpose of rewind ()?
- Q.6** Answer the following questions: **(10)**
- a) Explain call by value and call by reference with example.
 - b) Explain the following string function.
 - i) Strchr ()
 - ii) Strdup ()
 - iii) strncpy ()
 - iv) strev ()
 - v) streak ()
- Q.7** Answer the following: **(10)**
- a) Write as program to swap two numbers using function.
 - b) Differentiate between Structure and Array.
- Q.8** Answer the following: **(10)**
- a) What is File? What are the types of file?
 - b) Write short note on any two sorting technique.

* * * * *