

**M. SC. BIOINFORMATICS SEM.-I (C.B.C.S.) (2013
COURSE) / ADVANCED DIPLOMA IN BIOINFORMATICS
SEM.-I (C.B.C.S.) (2013 COURSE) : SUMMER - 2018**

SUBJECT: C Programming & Data Structure

Date: **Saturday**
Day: **07/04/2018**

S-2018-1123

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

N.B.

- 1) **Q.1 & Q. 5 are compulsory**
- 2) Attempt any two questions from **Q.2 to Q.4** from **Section- I** & any **two** questions from **Q.6 to Q.8** from **sections – II**
- 3) Answers to both the sections should be written in **SEPARATE** answer books.
- 4) Figures to the right indicate **FULL** marks.
- 5) Draw neat and labeled diagrams **WHEREVER** necessary

SECTION-I

Q.1 Write Short Note on the following: (10)

- a) Constants
- b) Keywords
- c) Control statement
- d) Steps to compile and execute C Program
- e) Operators & operand

Q.2 Answer the following: (ANY TWO) (10)

- a) Describe the rules to determine variable name and find out invalid variable name in C and Why

a) #MeAn b) FLOAT c) _basse d) over time

- b) Explain use of operators

a) || b) && c) !

- c) a) Predict the output : int b = 7, c=2, a;

a= b/a;

print ("%d", a);

b) Convert expression into C statement $R = \frac{b^2 - 4ac}{2a^3}$

Q.3 Answer the following: (ANY TWO) (10)

- a) What is type casting? How to achieve type casting in C?
- b) What is data type? Explain different data types in C
- c) What are the different symbols of flow chart

Q.4 Answer the following (ANY TWO) (10)

- a) Write a program to calculate average of elements in an array having user inputted values
- b) Write a program to find factorial of any user input number
- c) Explain entry control & exit control loops in C.

SECTION-II

Q.5 Writes short notes on : (10)

- a) & operator
- b) #include
- c) Storage class
- d) Enum
- e) Tree

P.T.O.

- Q.6** Answer the following: **(ANY TWO)** **(10)**
- a) What is pointer variable? Explain use of pointer.
 - b) Difference between array and structure.
 - c) Write a syntax to access array of structure & array within structure.
- Q.7** Answer the following: **(ANY TWO)** **(10)**
- a) Write a program to swap two no. using function.
 - b) Write a program to calculate power of a number using function.
 - c) Write a program to reverse user inputted string
- Q.8** Write short notes on: **(ANY TWO)** **(10)**
- a) What is difference between sequential file & random file access
 - b) Short Note on
 - i) fseek ()
 - ii) fflush ()
 - c) What are different data structures? Explain any two in details

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