

**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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