

B.C.A. (2010 COURSE SEM-I : WINTER - 2017

SUBJECT: PROGRAMMING IN C

Day: **Saturday**

Time: **02.00 PM TO 05.00 PM**

Date: **11/11/2017**

W-2017-1627

Max Marks: **70**

N.B:

- 1) **Q.No.1 is COMPULSORY.**
 - 2) Attempt any **FOUR** questions from **Q.No.2 to Q.No.7.**
 - 3) Each question carries **14** marks.
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- Q.1** a) What is meant by random access of file? Write a C program to implement random access of file. (07)
- b) What is string array? Explain any five string handling functions in C. (07)
- Q.2** Explain arrays of structures. Write a C program to maintain a record of "n" students using an array of structures with four fields (Rollno, Name, Percentage and Grade). (14)
- Q.3** Define an operator. Explain different types of operators in C. (14)
- Q.4** What is pointer? Write a C program using pointers to swap the values of two integer numbers. (14)
- Q.5** a) What is recursion? Write a recursive function in C to display factorial of given number. (07)
- b) Differentiate between structure and union. (07)
- Q.6** Explain fprintf() and fscanf() functions? Write a C program to copy contents of one file into another file. (14)
- Q.7** Explain category of functions with examples. (14)

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