

B.C.A. SEM-II (2014 COURSE) CBCS : WINTER - 2017

SUBJECT : C PROGRAMMING - II

Day : **Tuesday**
Date : **14/11/2017**

Time : **10.00 AM TO 01.00 PM**

Max. Marks : 100

W-2017-1608

N. B. :

- 1) Attempt **ANY FOUR** questions from Section – I and attempt **ANY TWO** questions from Section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - I

- Q. 1** What is dynamic memory allocation? Explain different memory allocation functions with example of each. (15)
- Q. 2** Differentiate between union and structure. Illustrate use of them with example. (15)
- Q. 3** Define recursion. Explain how to write recursive function with suitable example. (15)
- Q. 4** Discuss various file handling functions with syntax and use. (15)
- Q. 5** What is a header file? Discuss different header files with examples. (15)
- Q. 6** What is the difference between array and pointer? Illustrate the concept of both with example. (15)
- Q. 7** Write short notes on **ANY THREE** of the following: (15)
- a) Graphics in C
 - b) Bitwise operators
 - c) Nesting of Structure
 - d) extern storage class

SECTION - II

- Q. 8** Write a C programs to search a particular word from text file and count the number of occurrences of that word and display the same. (20)
- Q. 9** Write a C program to accept integers through command line arguments and print the sum of prime numbers. Make use of user-defined function to find whether number is prime or not. (20)
- Q.10** Design a structure to hold electricity bill details such as customer name, month and year of bill along with units consumed. Display the bill of a particular customer. Make use of constants to consider per unit charges as below: (20)

Units	Charges (Rs.)
0 to 100	2.91
101 -200	3.50
200 and above	4.50

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