Roll No	0	

BCA-201(N)

B. C. A. (Second Semester) EXAMINATION, May/June, 2015

(New Course)

Paper First

C-PROGRAMMING

Time: Three Hours] [Maximum Marks: 75

Note: Section A is compulsory. Attempt any seven questions from Section B and any one question from Section C.

Section—A

 $4\frac{1}{2}$ each

- 1. Fill in the blanks.
 - (A) The..... computer is the part of a computer that executes instruction.
 - (B) is a program that converts high level code into machine code.
 - (C) Character variable takes bytes of memory.
 - (D) What will be output of printf ("KANPUR" + 2)
- 2. State True or False:
 - (E) Offset used in FSEEK() function call can be negative number.
 - (F) A union cannot be nested in structure.

B-28 P. T. O.

Write a program to display the following:

* * * * * * * * *

0

- (G) In expression a = b = 5 the order of assignment is not decided by associativity of operators.
- (H)Bitwise & can be used to check if a bit in number is set or not.
- 3 Explain the following:

(a)

Object file

- 9 Binary file
- Differentiate between structure and union in C with suitable

Section-B

Note: Attempt 6 marks. any seven questions. Each question has

- S (a) Explain types of function calling in C with example
- 0 reference. Write a program to swap two numbers using call by
- 0 (a) What is command line argument? Explain with example.
- (6) argument values. Write a program to display the command line
- 7. (a) using recursion. Write a program 6 find the factorial of a number
- (6) types and their size What is data types ? Explain different types of data
- (a) compiler. What is a compiler ? Explain the working of C

- 9 (a) function. What is string? Explain three string manipulation
- 6 Write a program to reverse string without using library
- 10. (a) What is array? How is array allocated in memory?
- 6 increasing order. Write a program to sort an arithmetic array in
- 11. (a) Explain the concept of arithmetic operation supported by pointer pointer. Also explain
- 0 collection. Explain with example the concept of Garbage
- 12. (a) What is dynamic memory allocation? Explain
- 9 Differentiate between 'malloc()' and 'free()' function.
- 13. Write a program to create a structure and store its variable value in file.

Section-C

15 each

Note: Attempt any one question.

14. (a) Write a program to calculate the multiplication of two matrix values should be entered by user.

B-28

- (b) Also multiply the result matrix even element with odd element and store the results at even positions.
- 15. (a) Write a program to search a word in file and replace with the word input by the user.
 - (b) Write a program to copy a file into another but in reverse order.