Roll No. .....

97665

B.C.A. 2nd Semester

Examination–May, 2015

C Programming

Time 3 hours **Paper-BCA-106**

Time : 3 hours ***Max. Marks : 80***

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt **five** questions. Q. 1 is **compulsory.** Select **one** question from each unit.

Section-A

1. (a) What are keywords ? How many keywords are there in C language?

(b) What is data type?

(c) Differentiate between local and global variable.

(d) What is function prototype?

(e) What are nested loops?

(f) Why is switch statement required?

(g) What is the difference between string constant and string variable?

(h) What is array of string?

Section-B

Unit-I

2. (a) Where was C originally developed and by whom? Explain the structure of C Program.

(b) (i) Differentiate between printf and scanf.

(ii) What is meant by variable? In what ways variable differ from constant?

3. What is meant by hierarchy of operators? Provide a brief outline of all operators supported by C language along with their hierarchy within expressions with suitable examples.

Unit-II

4. (a) Write a program to determine whether a number is prime or not?

   (b) Differentiate:

   (i) While and do-while loop

   (ii) Break and continue

5. (a) Explain Nested IF statement and ELSE IF ladder with example.

   (b) WAP in C language to find the smallest of three given numbers.

Unit-III

6. (a) What is the use of Recursion. WAP for finding the factorial of a given number.

(b) Differentiate between Call by value and Call by reference with example.

7. (a) Differentiate getch(), getche(), gets() and getchar with example.

(b) Explain various string manipulation function with example.

Unit-IV

8. (a) Differentiate auto, extern, static and register storage class.

(b) What do you mean by Pointer. Explain various operations on pointer by using suitable example.

9. (a) WAP to find the addition of two matrices of order m × n

(b) What is array? How can entire array be passed to a function ? Explain.