I Semester B.C.A. Degree Examination, November/December 2015
(Y2K14 Scheme) (CBCS)
COMPUTER SCIENCE
BCA 103T : Problem Solving Techniques Using 'C'

Time : 3 Hours   Max. Marks : 70

Instruction : *Answer all Sections.*

SECTION – A

I. Answer **any ten** questions :   (10×2=20)

1) Define algorithm.

2) Define system software.

3) What is header file ?

4) What are the rules for declaring variables in C ?

5) Give the syntax and example for If-Else statement.

6) What is the difference between break and continue ?

7) How to declare and initialize two dimensional array ?

8) Difference between Strcmp( ) and Strcmpi( ).

9) What is Mallac( ) and Calloc( ) ?

10) Give the difference between * and & in C pointer.

11) What is file pointer ?

12) What are command line arguments ?

SECTION – B

II. Answer **any five** of the following :   (5×10=50)

13) a) Explain the structure of a C program.   4

b) Write an algorithm and flowchart to find largest of 3 numbers.   6

14) a) Explain formatted input-output function in C.   5

b) Explain binary operators in C with examples.   5

P.T.O.

15) Write a menu driven C program using switch-case to find :

a) Sum of the digits of a number

b) Factorial of N.   10

16) Explain different types of user-defined functions with examples.   10

17) a) Write a C program to arrange the given set of numbers in ascending order.   4

b) Write a program to find the product of matrices of order m × n.   6

18 a) Explain call by value and call by reference with examples.   5

b) Explain array of structures with an example.   5

19) a) Explain different modes of opening a file.   5

b) Write a C program to copy contents of one file to another.   5

20) Write short notes on :

a) Local variable and global variable.   5

b) While loop and Do-while loop.   5