I Semester B.A./B.Sc. Examination, Nov./Dec. 2014
(CBCS) (Fresh)
(2014-15 and Onwards)
COMPUTER SCIENCE – I
Problem Solving Through C Programming

Time : 3 Hours   Max. Marks : 70

Instruction : Answer **all** the Sections.

SECTION – A

I. Answer **any ten** questions. **Each** question carries **two** marks.   **(2×10=20)**

1) Write the features of 'C' program.

2) What is flowchart ? Mention its types.

3) What are C tokens ?

4) If a = 20, b = 40, what is X if X = a +(+ + b) ?

5) Mention the syntax of printf and scanf functions.

6) Explain nested IF statement.

7) What is structure ? How to initialize a structure ?

8) What is a string ? Write any two operations on string.

9) Mention types of functions.

10) What is pointer ? Mention its syntax.

11) What is File ? How to declare a file ?

12) What are macros ? Mention types of macros.

SECTION – B

II. Answer **all** the questions. **Each** question carries **ten** marks.   **(10×5=50)**

13) a) i) Explain the structure of a 'C' program with example.

   ii) Write an algorithm to generate N natural numbers.   **(5+5)**

   OR

   b) i) Write a flowchart to reverse the given number.

   ii) Explain the different types of arrays with an example.   **(5+5)**

P.T.O.

14) a) i) Explain the working of switch statement with a suitable example.

ii) Explain automatic and external storage classes with an example.

(5+5)

OR

b) i) Discuss various operators supported by 'C' language.

ii) Differentiate between while and do-while statements in C. **(6+4)**

15) a) i) Write a C program to find sum of matrices.

ii) Briefly explain go-to statement in C. **(7+3)**

OR

b) i) Write a C program to find factorial of a given number.

ii) What is function ? Give an example.

iii) Write a 'C' function to find the largest of two numbers. **(4+3+3)**

16) a) i) What do you mean by structures ? Explain with example.

ii) What is type def in C ? Explain with an example. **(7+3)**

OR

b) i) Explain function with arguments and with return values with an example.

ii) Write a C program pointers. Find the length of a given string using. **(5+5)**

17) a) i) Write a C program to illustrate an array of structures.

ii) Explain pointers to pointers concept in 'C'.

iii) Mention the rule for defining a pre processor. **(5+3+2)**

OR

b) i) What is a file ? Explain the three modes of file.

ii) Write a note on command line arguments. **(7+3)**