I Semester B.C.A. Degree Examination, December 2018
(Freshers) (CBCS)
COMPUTER SCIENCE
Problem Solving Techniques Using C

Time : 3 Hours

Max. Marks : 70

Instruction : Answer all Sections.

SECTION – A

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

1) Define the term algorithm. Give eg.
2) Mention any four C-Tokens.
3) Write the syntax of conditional operator and give example.
4) Define string with example.
5) Explain Break and continue statements.
6) How to declare and initialize two dimensional array ?
7) What is pointer? How is a pointer initialized?
8) How does structure differ from an union?
9) Define a macro. Give one example.
10) What are actual and formal parameters?
11) What is file pointer? Write the general syntax of declaring a file pointer.
12) Write a note on command line arguments.

SECTION – B

II. Answer any five questions. Each question carries ten marks. (5×10=50)

13) a) Define a flowchart. Explain all flow chart symbols.
   b) Describe in detail the syntax errors, logical errors and runtime errors.

14) a) Explain the different unary operators available in C-language with example.
   b) Explain formatted input-output functions in C language.

P.T.O.
15) a) What are different forms of If statements explain with example.
   b) Explain any three looping statements with an example.

16) a) What are the different ways of calling a function explain with example.
   b) Write a C-program to find GCD of two numbers using recursion.

17) a) Explain the purpose of malloc() and calloc() functions with example.
   b) Explain different storage classes in C-language.

18) a) Explain different string library handling functions used in C-Language.
   b) What is an array? Explain how to access an array elements with example.

19) a) Explain different modes of opening a file.
   b) Write a C-program to copy the contents of one file to another file.

20) a) Write a C-program to find roots of a given quadratic equation using if-else statements.
   b) What are preprocessor directives.