15121

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.   5
       b) Describe in detail the syntax errors, logical errors and runtime errors.   5

   14) a) Explain the different unary operators available in C-language with
          example.   5
       b) Explain formatted input-output functions in C language.   5

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15) a)	What are different forms of If statements explain with example.	5
b)	Explain any three looping statements with an example.	5
16) a)	What are the different ways of calling a function explain with example.	5
b)	Write a C-program to find GCD of two numbers using recursion.	5
17) a)	Explain the purpose of malloc( ) and calloc( ) functions with example.	5
b)	Explain different storage classes in C-language.	5
18) a)	Explain different string library handling functions used in C-Language.	5
b)	What is an array ? Explain how to access an array elements with example.	5
19) a)	Explain different modes of opening a file.	5
b)	Write a C-program to copy the contents of one file to another file.	5
20) a)	Write a C-program to find roots of a given quadratic equation using if-else statements.	7
b)	What are preprocessor directives.	3