



560

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

## SECTION-B

11. Answer any five questions. Each question carries ten marks. (5x10=50)
- 13) a) Define a pointer. 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