15121

Reg. No. ☐☐☐☐☐☐☐☐

I Semester B.C.A. Degree Examination, August - 2021
COMPUTER SCIENCE
Problem Solving Techniques Using C
(CBCS Scheme)

Time : 3 Hours   **Maximum Marks : 70**

Instructions to Candidates :   Answer **ALL** Sections.

SECTION - A

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

   1) What is software? Mention the classification of software.
   2) What is type casting?
   3) Mention any four C tokens.
   4) What is Ternary operator?
   5) What are the rules for declaring a variable in C?
   6) What are local and global variables?
   7) What is Recursion?
   8) Define Pointer with an example.
   9) Distinguish between calloc () and malloc ().
   10) What are the uses of break and continue statements?
   11) Define pre - processor directive?
   12) What is a storage class?

SECTION - B

II. Answer any **Five** questions.   (5×10=50)

   13) a) Explain the structure of C program with an example.   (5)
       b) Write an algorithm to find average of three numbers.   (5)

   14) a) What is a flow chart? Write its symbols.   (5)
       b) Explain data types in C.   (5)

   15) a) Explain recursive function with an example.   (5)
       b) Write a 'C' program to find factorial of a number.   (5)

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16) a) Write a note on formatted I/O functions in C. (5)
    b) Explain various If statements. (5)

17) a) Write a 'C' program to find whether a given number is prime (or) not. (5)
    b) Explain switch - case statement with example. (5)

18) a) Explain string handling functions in C. (5)
    b) What is an Array? Explain how to access an array element with an example.(5)

19) a) Explain types of storage classes. (5)
    b) Explain call by value and call by reference. (5)

20) a) Explain briefly the various file modes? (5)
    b) Write a note on local and global variables? (5)

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