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Reg. No.

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**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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