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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)



SECTION - B

(2x10=20)

- 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)

P.T.O.