

Roll No.

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Total No. of Questions: 7

Total No. of Pages: 02

B. Sc (IT/ BCA) (Sem. 1)
PROGRAMMING IN C
Subject Code: BSIT/ BSBC-102
Paper ID: B1109

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

1. **SECTION A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.**

SECTION A

1. Explain the following briefly:
 - a) Draw the symbols used in a flow chart?
 - b) Why is programming needed?
 - c) Why is the use of go to statement discouraged in C programs?
 - d) Declare a 3-dimensional array to store 30 students' names class wise (for 3 classes)?
 - e) What is a pointer?
 - f) Differentiate between struct and union?
 - g) Write the syntax of do...while statement & explain it?
 - h) Write down program instructions to open and close a file?
 - i) What is the drawback of declaring variables as global?
 - j) How is a recursive function defined?

SECTION B

2. Write down the different options for writing format string in I/O statements in a C-program?
3. Write down a C program to check if a number is present in a given list of numbers. If present give location) of the number otherwise insert the number in the list at the end?
4. Explain the use of 'break' statement? Write a program to check whether a number is prime using break statement?

5. How is a 2-D matrix represented in memory? Write a program to add (3,3) matrix row wise and generate a (3,1) matrix?
6. What is a storage class? Explain the different types of storage classes?
7. What is the difference between call by value and call by reference? Explain with the help of an example?