

'C' Programming

Time : 3 Hours]

[Max. Marks : 50

Note : Attempt all five questions. Symbols have their usual meanings.

1. (a) Define Data types of C language.
 (b) Write down relation, Logical, bitwise operator of C language with example.

OR

- (a) Explain the various kinds for formatting characters in C.
 (b) Explain the precedence of operators in C.
2. (a) What do you mean by loop? Write the difference between while and do while loop. with example.
 (b) Write a program to generate the fabnocil series eg 1, 1, 2, 3, 5, 8 mean next number is the sum of previous two.

OR

- (a) Write a program to find out the sum of series :

$$1+x+\frac{x^2}{2!}+\frac{x^3}{3!}+\dots+\frac{x^n}{n!}$$
- (b) Explain various types of loop statements used in C++.
3. (a) What do you mean by function? Write the difference between call by value and call by reference.
 (b) What are the difference between pointer and array? Explain with example.

OR

- (a) What do you mean by Array? Write down the advantages and limitation of Array.
 (b) Write a program to search an element from erray using binary Search.
4. (a) What do you mean by recursion? Explain with example.
 (b) Write a `C' program to read the information of 50 students and print the students and print the students who secured first position.

OR

- (a) Write a C program to read a line and find out number of vowels and consonants present in that given line.
 (b) Differentiate the following : (i) Structure and union.
 (ii) Arrays of structures and structure of arrays.
5. (a) What is file and how many types of files are available?
 (b) Write a program to create a data file of record of student.

OR

- (a) Write any five function available in C for file handling. Explain their usage also.
 (b) How `C' handles I/O errors? explain with the help of suitable programming example.

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