J.C. Bose University of Science and Technology, YMCA Faridabad



Subject: Programming for Problem Solving (PPS 2nd Sessional)

B. Tech. 2nd Sem (M21 & M22)

Max. Marks: 30

Time: 90 mins

All Questions are compulsory.

Q1. Differentiate between 1-D & 2-D array. Write a C program to sort n elements using bubble sort. CO3 (5)

Q2. Differentiate between call by value and call by reference with the help of a suitable example.

Q3. Define recursion. Write a C program to find factorial of a number using recursion.

Q4. Define dereference pointer in C with example. Also, write a C program for self-referential structures with multiple links by using pointers in C.

Q5. Differentiate between arrays & structures. Write a program for storing students record with three fields (name, roll number, marks) using array of structures in C.

Q6. Write a C program for 2-D matrix multiplication in C.