

BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-I COMPUTER SCIENCE & ENGINEERING : WINTER : 2023
SUBJECT : PROGRAMMING & PROBLEM SOLVING

Day : Tuesday

Time : 10:00 AM-01:00 PM

Date : 12/12/2023

W-27611-2023

Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.
- 5) Use of IS800, IS875, Steel Table and Calculator is **allowed**.

Q.1 Explain the basic structure of 'C' program and explain the significance of each section. (10)

OR

Q.1 Explain algorithm and flowchart also write difference between Algorithm and flowchart with example. (10)

Q.2 What are different types of 'if' statements available in C? Explain them. (10)

OR

Q.2 List and explain operators used in C. (10)

Q.3 Explain the declaration and initialization of two-dimensional array with an example. (10)

OR

Q.3 Define 'C' string? Write a 'c' program to reverse a string. (10)

Q.4 Explain all storage classes with example. (10)

OR

Q.4 Explain array of structure. Declare 'C' structure for student having data member as R_no, name, marks initialize and display data for 5 students. (10)

Q.5 What is pointer in 'C' programming? What are its benefits? Give the process of declaring and initializing pointers. (10)

OR

Q.5 Write a 'C' program for exchanging of two numbers using pointer. (10)

Q.6 Explain different modes of opening files with syntax and example. (10)

OR

Q.6 Write a c program to read the content of file and display it. (10)
