

BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-I COMPUTER SCIENCE & ENGINEERING : SUMMER : 2024
SUBJECT: PROGRAMMING & PROBLEM SOLVING

Day : Thursday
Date : 16/05/2024

S-27611-2024

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.

Q.1 What are symbolic constants for flowchart? Write flowchart for no is even or odd. (10)

OR

Q.1 Write Difference Between algorithm and flowchart. Also write an algorithm and flowchart to find the largest among two numbers. (10)

Q.2 Describe the four basic datatypes. (10)

OR

Q.2 List conditional control statements used in C. Explain all with syntax and example. (10)

Q.3 Write a program to get column-sum in a matrix of size n X n. (10)

OR

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

Q.4 Declare the 'C' structures for the following scenario: (10)
i) College contains the following fields: College code (2 characters), College Name, year of establishment, number of courses.

OR

Q.4 Explain Call by Value and Call by Reference with Examples also give the difference between it. (10)

Q.5 Explain in brief about & and * operators. (10)

OR

Q.5 Explain in detail how to access a one-dimensional array using pointers with an example program? (10)

Q.6 Write about the basic operations on files? (10)

OR

Q.6 Write a c program to copy the contents of one file to another? (10)
