

F.E Sem -II C-Scheme Summer 2025

Time: 2 hour

Max. Marks: 60

NB: 1) Question No.1 is compulsory.

2) Attempt any three questions from question no. 2 to 6.

Q1 Solve any Three out Five of the following (5 marks each)

(15 marks)

- Write an algorithm and draw flowchart to find the roots of quadratic equation.
- Write a C program to find frequency of characters in a string.
- Difference between Structure and Union.
- Write a program to check whether given year is leap year or not.
- What are logical operators in C.

Q.2

(15 marks)

- What is Recursion? Write a program to display factorial of number using recursion.
- Difference between while loop & do-while loop
- Explain basic data types in C along with their sizes and ranges

6M

4M

5M

Q.3

(15 marks)

- Write user defined functions to implement following string operations

5M

i. Strcat ii. Strlen

- Explain bitwise operators with example.

4M

- Write a program to print the following pattern. (Note: Not only 4 lines, it should print N lines taken from the user.)

6M

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      A
    B  B
  C  C  C
D  D  D  D

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Q.4

(15 marks)

- Explain switch case and if else ladder with example.
- Write a program in C to find the smallest of N elements using an array.
- Write a program to check whether a string is palindrome or not.

5 M

5 M

5M