2024

COMPUTER SCIENCE — HONOURS — PRACTICAL

Paper: DSCC-2P

(Problem Solving Using C Lab)

Full Marks: 25

The figures in the margin indicate full marks.

Set - 4

Marks Distribution:

Experiment : 15 (Source Code : 8, Algorithm : 4, Output : 3)

Viva voce : 05 Laboratory Notebook : 05

Answer any one question.

1. Write a program in C to swap maximum and minimum elements in a matrix (2D-array). The matrix should be taken as input from user.

2. Write a program in C to add two complex numbers using structure. Display the result in proper format of complex number.

3. Write a program in C to find the number of characters, words and lines in a text file.

4. Write a program in C to find all prime-fibonacci numbers within the range m to n. m and n should be taken as input from user.

- 5. Write a program in C to find sum of the series, $S = \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \dots$ up to *n* terms. x and *n* should be taken as input from user.
- 6. Write a program in C to find the largest word(s) from the content of a file.
- Define a structure named 'student' which contains following fields:
 roll, name, marks in subject1 and marks in subject2.
 Write a program in C to find the name and roll no. of the student who achieved highest marks in each subject.
- 8. Write a program in C to find the longest line along with its length in a text file.