

2018

2nd Semester

ELECTRONICS

(Honours)

PAPER—C4P

(Practical)

Full Marks : 20

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

C Programming and Data Structures (Lab.)

Answer any one question.

Select one experiment by lucky draw method.

1. Write a program to find all the roots of a quadratic equations $Ax^2 + Bx + C = 0$ for non-zero coefficients A, B and C. Else report error.
2. Write a program to find the transpose of a 3×3 matrix

$$\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$$

(Turn Over)

3. Write a program to generate non-prime numbers upto 50.
4. Write a program to check whether a given character is vowel or not.
5. Write a program in 'C' to generate Fibonacci series upto 'n' terms. Where 'n' enter through keyboard.
6. Write a program in 'C' to find the sum of ten following series :

$$1 + \frac{1}{3} + \frac{1}{5} + \frac{1}{7} + \dots \text{ upto 10th term.}$$

7. Write a program in 'C' to find the roots of a quadratic equation where the coefficient a, b and c must be entered through keyboard.
8. Write a program in 'C' to find out whether a number enter through keyboard is prime or not.

Marks Distribution

Experiment :	15 marks
Laboratory Note Book :	2 marks
Viva-voce :	3 marks
Total	20 marks