

2025

M.Sc. 1st Semester Examination

ELECTRONICS

Paper : ELCC403X8

[Research Methodology]

(Practical)

Full Marks : 25

Time : Two Hours

Answer any *one* question by a lucky draw.

- 1. Write a C program to check whether a number is prime or not.**

- 2. Write a C program to generate the Fibonacci series up to N terms.**

- 3. Write a C program to print all Armstrong numbers within a given range.**

(2)

4. Write a C program to compute $\sin(x)$ using its infinite series expansion.
5. Write a C program to compute $\exp(x)$ using its infinite series expansion.
6. Write a C program to sort an array in descending order using Bubble Sort.
7. Write a C program to solve a polynomial equation using the Bisection Method.
8. Write a C program to solve a polynomial equation using the Newton-Raphson method.

(3)

9. Write a C program to check a given year leap year or not.

10. Write a C program to convert a given decimal number to equivalent binary number.

11. Write a C program to print the following :

```
*  
  
*  *  
  
*  *  *  
  
*  *  *  *
```

12. Write a C program to find the factorial of a given number.

13. Write a C program to calculate the multiplication of two matrices.
14. Write a C program to calculate nC_r and nP_r using given numbers.

Evaluation Marks Distribution :

Laboratory Note Book	5
Viva-voce	5
Experiment	15
Total	25
