2023

M.Sc.

4th Semester Examination

COMPUTER SCIENCE

PAPER : COS-491

(Practical)

(AI Lab)

Full Marks : 25

Time : 2 hours

The figures in the right-hand margin indicate marks.

Answer *any* **one** question from the following :

$20 \times 1 = 20$

1. Write a program to calculate factorial of a given number.

2. Write a program to find nth Fibonacci number.

3. Write a program to check whether a given number is prime.

4. Write a program to implement the Tower of Hanoi problem using prolog.

5. Write a program to find the GCD of two given numbers.

6. Write a program to solve 8 queens problem.

7. Write a program to solve a problem using depth first search.

8. Solve Travelling Salesman Problem using prolog programming.

[PNB + Viva = 5]

* * *