MCA 3rd Semester Examination, 2024

MCA

(*AI Lab*)

(Practical)

PAPER — MCA-397

Full Marks : 50

Time : 2 hours

Answer **all** questions

The figures in the right hand margin indicate marks

Answer any **one** question on **lottery** basis :
$$35 \times 1$$

1. (*a*) Write a PROLOG program to find facto-
rial of a given number.   15

   (*b*) Write a PROLOG program to find the
length of a list.   20

2. (*a*) Write a PROLOG program to calculate 6th Fibonacci number. 15

(*b*) Write a PROLOG program to delete last element from a list. 20

3. (*a*) Write a PROLOG program to find the sum of N natural Number. 15

(*b*) Write a PROLOG program to check a list is palindrome or not. 20

4. (*a*) Write a PROLOG program to find gcd of two numbers. 15

(*b*) Write a PROLOG program to find the maximum of a list. 20

5. (*a*) Write a PROLOG program to check whether a number is prime or not. 15

(*b*) Write a PROLOG program to find the minimum of a list. 20

VIVA — 15