MCA/IVS/407/13

MCA 4th Semester Examination, 2013

ARTIFICIAL INTELLIGENCE LAB

PAPER — MCA-407

Full Marks : 50

Time : $1\frac{1}{2}$ hours

Answer any **one** question selecting
it by a lucky draw

1. Write a program to find out the largest number of a list L.

2. Write a prolog program to calculate the sum of *N* natural numbers.

3. Write a program to find out the *N*th number in Fibonacci series.

4. Write a program to check whether a list L is palindrome or not.

5. Write a program to calculate the number of elements of a list.

6. Write a prolog program to delete all occurrences of a given element from a list.

7. Write a program to find out the reverse of a list L.

8. Write a prolog program to insert n elements at the end of a list.

9. Write a prolog program to generate all sublists of a given list.

(*Turn Over*)

10. Write a prolog program to find the sum of first *n* even positive integers.

11. Write a prolog program to show the factors of a positive integer.

12. Write a prolog program to show the prime factors of a positive integer.

13. Write a prolog program to show the alternative elements from a list starting from the first.

14. Check whether a given number is prime or not.

15. Show the LCM of 2 positive integer using prolog.

16. Sort a list of element in ascending order using prolog.

Marks Distribution

1. Brief Description of the Problem — 10 %
2. Program listing — 40 %
3. Result and Discussion — 30 %
4. Viva — 20 %

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