'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 6th Semester Examination, 2022

CC13-COMPUTER SCIENCE (CC-61L) (PRACTICAL)

ARTIFICIAL INTELLIGENCE LAB

Time Allotted: 2 Hours | Full Marks: 20

The questions are of equal value.
The figures in the margin indicate full marks.
All symbols are of usual significance.

Answer any *one* question of the following 20×1 = 20

1. Write a prolog program to implement Palindrome (List).

2. Write a prolog program to implement reverse(List, Reversed) that Reverse lists.

3. Write a prolog program to calculate the factorial of a given number.

4. Write a prolog program to remove the *n*'th item from a list.

5. Write a prolog program to implement append for two lists.

6. Write a prolog program to implement GCD of two numbers.

7. Write a prolog program to calculate the *n*'th fibonacci numbers.

8. Write a prolog program to implement max(*X*, *Y*, Max) so that Max is the greater of two numbers *X* and *Y*.

9. Write a prolog program to implement sumlist(List, Sum) so that sum is the sum of a given list of number list.

10. Write a prolog program, remove.*n*'th (Before, After) that asserts the After list is the Before list with the removal of every *n*'th item from every list at all levels.

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