**RAMANANDA COLLEGE**

**B.Sc (Hons) SIXTH SEMESTER EXAMINATION, 2021**

**Subject: Computer Science Course Code : SH /CSC/ 601/C-13**

**Course Title: Artificial intelligence (Practical) Course ID: 61521**

**Full Marks: 15 Time: 2Hrs**

**(Viva = 5, Experiment =10)**

Answer any one of the following questions 10

1. Write a Prolog program to implement sumlist(List,Sum) so that Sum is the sum of a given list of   
 numbers List.

2. Write a prolog program to find the maximum of two numbers.

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

4. Write a prolog program to calculate the nth Fibonacci number.

5. Write a prolog program, insert\_nth(item, n, into\_list, result) that asserts that result is the list into\_list   
 with item inserted as the n‘th element into every list at all levels.

6. Write a Prolog program to remove the Nth item from a list.

7. Write a Prolog program, remove-nth(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.

8. Write a Prolog program to implement append for two lists.

9. Write a Prolog program to implement palindrome(List).

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