

ACTIVITY CODE 1903040031

BSc 6th Semester Hons Examination October 2020

Subject: Computer Science

Course ID: 61521

Course Code: SH/CSC/601/C-13

Course Title: Artificial intelligence (PR)

Full Marks: 10

Time: 1 Hr

Perform any one experiment (Experiment-6, Viva-4)

1. Write a prolog program to calculate the sum of two numbers.
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.

