

BSC 4TH SEMESTER (HONS) EXAMINATION-2022

Subject: Computer Science

Course ID:61521

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

Course Title: Artificial Intelligence (practical)

Full Marks: 15

Time-1Hr

The figures in the margin indicate full marks

Answer any one question:

10+5=15

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 nth 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 nth 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