

ACTIVITY CODE 1903040021

BSc 6th Semester Hons Examination October 2020

Subject: Computer Science

Course ID: 61511

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

Course Title: Artificial intelligence (Theory)

Full Marks: 15

Time: 1 Hr

The figures in the margin indicate full marks

#### UNIT-I

Answer any 5 of the following questions:

(1x5=5)

1. What is artificial intelligence?
2. What is meant by intelligent agent?
3. What is knowledge?
4. Write one difference between forward chaining rule system and backward chaining rule system.
5. Write one difference between BFS & DFS.
6. Translate the sentence - "apples are food" into a formula in predicate logic.
7. What is semantic net?
8. What is horn clause? Give example.
9. Write down the importance of control strategy in production system.
10. Write name of some intelligent systems.

#### UNIT-II

Answer any five of the following questions:

(5x2=10)

1. Write in brief about the goals of AI.
2. What is frame structure.
3. What do you mean by production system.
4. Write some advantages of depth first search.



5. What are the disadvantages of breadth first search?
6. What is resolution?
7. What is unification?
8. Write down differences between informed search and uninformed search?
9. Write down the differences between minmax and alpha-beta pruning.
10. Write in brief the algorithm for best first search.

