## TRIBHUVAN UNIVERSITY FACULTY OF MANAGEMENT

Office of the Dean March - April 2017 Full Marks: 40 Time: 2 hrs.

BIM / Seventh Semester / IT 228: Artificial Intelligence

Candidates are required to answer all the questions in their own words as far as practicable.

Group "A"

## 1. Brief Answer Questions:

 $[10 \times I = 10]$ 

- i. When machine is termed intelligent in Turing Test?
  - Define agent function.
  - iii. Why pragmatic analysis is necessary in NLP?
  - iv. In what type of situation fuzzy logic can be used?
  - v. "Every husband loves his wife", convert the above statement in FOPL.
  - vi. What is unsupervised learning?
  - vii. Write any two conflict resolution strategies in production system.
  - will What is skolemization?
  - ix. What do you mean by Admissible heuristics?
  - x. What is alpha-beta purning?

Group "R"

## Short Answer Ouestions:

 $[5 \times 4 = 20]$ 

- How Goal based agent works? Explain.
- Differentiate between forward chaining and backward chaining with suitable example.
- 4. Explain any two Activation function.
- Why genetic algorithm is important? Explain different operators of genetic algorithm with suitable example.
- Explain learning agent with block diagram.

Group "C"

## Comprehensive Questions:

 $[2\times 5=10]$ 

- Define game playing search. Why alpha beta pruning is better than min-max algorithm? Justify with suitable game tree.
- Ram is a boy. Sita is a girl. Ram is husband of Sita. If girls has husband then she is married.
  Write above knowledge base in predicate logic and show that "Sita is married" using Resolution aleorithm.

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