

Roll No

IT - 833
B.E. VIII Semester
 Examination, June 2014
Artificial Intelligence
 (Elective-III)

Time : Three Hours

Maximum Marks : 70

Note: Attempt all questions. All questions carry equal marks.

Unit I

1. a) What do you understand by Heuristic? Explain hill climbing method compare it with generate and test method. 7
- b) Discuss the characteristics of production systems. 7

OR

2. a) Explain Artificial Intelligence. Also discuss the areas where it can be used. 7
- b) Compare breadth first search and depth first search techniques. 7

Unit II

3. a) Explain the various approaches of knowledge representation schema with the help of examples. 7
- b) Differentiate between monotonic and non monotonic reasoning? 7

OR

4. a) Explain the various types of problems faced in representing knowledge. 7

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b) Write short note:-

- i) Resolution
- ii) Refutation
- iii) Inferencing

7

Unit III

5. a) State and prove Baye's theorem. 7
- b) Explain semantic net. Give semantic net representation for the following sentences. 7
- i) Ram's height is 165 cm
- ii) Seeta is taller than Geeta

OR

6. a) Explain fuzzy logic and its operations. 7
- b) Explain the concept of forward and backward reasoning with the help of example. 7

Unit IV

7. a) Give a brief note on natural language processing. Also discuss its application areas. 7
- b) Explain minimax procedure in game playing with examples. 7

OR

8. a) Explain block world problem in robotics with example. 7
- b) Discuss the components of a planning system? 7

Unit V

9. a) What is learning? Explain various techniques being used in learning? 7
- b) What is expert system? Discuss its characteristic and applications. 7

OR

10. a) What do you understand by Neural Network? Discuss the applications of neural networks. 7
- b) Give a brief note on common sense reasoning. 7