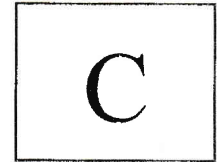


BTS-VIII(S)-08.18-1628

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***B.Tech. Degree VIII Semester Supplementary Examination
August 2018***

**CS 802 ARTIFICIAL INTELLIGENCE
(2006 Scheme)**

Time : 3 Hours

Maximum Marks : 100

**PART A
(Answer ALL questions)**

(8 × 5 = 40)

- I. (a) Write the characteristics of production systems.
- (b) Explain the algorithm for best fit search.
- (c) Write the unification algorithm.
- (d) Describe the concept of Goal Tree.
- (e) What are the features of fuzzy logic?
- (f) Explain conceptual dependency.
- (g) What is meant by software agent?
- (h) Write a short note on agent topology.

PART B

(4 × 15 = 60)

- II. (a) Explain the minimax algorithm. (10)
- (b) What is meant by constraint satisfaction? (5)
- OR**
- III. (a) Explain the different heuristic search techniques. (10)
- (b) What is alpha beta cutoff? (5)
- IV. Describe the algorithm in detail to convert a wff into clause form with the help of an example. (15)
- OR**
- V. Describe the algorithm for 'Resolution by Refutation' in detail with the help of an example. (15)
- VI. What is meant by Learning? Describe various methods of learning. (15)
- OR**
- VII. What is meant by Natural Language Processing (NLP)? Describe various components of NLP in detail. (15)
- VIII. Describe the Java Implementation of Intelligent Agents. (15)
- OR**
- IX. Explain agent oriented programming in detail. (15)
