

ANNA UNIVERSITY COIMBATORE
B.E. / B.TECH. DEGREE EXAMINATIONS : DECEMBER 2009
REGULATIONS – 2007
FIFTH SEMESTER : COMPUTER SCIENCE & ENGINEERING
070230049– ARTIFICIAL INTELLIGENCE

TIME : 3 Hours

Max.Marks : 100

PART – A

(20 x 2 = 40 MARKS)

ANSWER ALL QUESTIONS

1. Explain about Rational Agents.
2. Give the PEAS description of Part – Picking robot
3. What is meant by Conflict Directed by backtracking.
4. Write Short notes on bidirectional search.
5. Difference between Informed and Uninformed search strategies
6. What are the Problems faced by Hill climbing search.
7. What is MCV and LCV?
8. Write Examples of processes and discrete events.
9. Give example for Constant symbols, Predicate symbols and Function Symbols.
10. Explain about Generalized Modus Ponens rule.
11. What is Logic Programming?
12. Define Ontological Engineering.
13. What are all the types of learning.
14. Explain about Ensemble Learning.
15. Difference between Active and Passive reinforcement learning.
16. Explain the Bayes Rule with Example.
17. What are the Steps in Communication Process.

18. Define Parsing.
19. Explain about Grammar Induction.
20. What are the types of Translation.

PART – B

(5 x 12 = 60 MARKS)

ANSWER ANY FIVE QUESTIONS

21. Explain any 4 uninformed search strategies.
22. Alpha- beta pruning based minimax techniques for game playing with example.
23. Write A* Search Algorithm and explain.
24. Explain in detail about : -
 - a Forward Chaining 6
 - b Backward Chaining 6
25. Explain in detail with Example Knowledge Engineering in FOL
26. Explain in detail about Decision tree based learning techniques.
27. Structure and working of
 - a Single layer feed forward neural networks 6
 - b Multilayer feed forward neural networks 6
28. a Briefly explain about Information Retrieval 6
b Briefly explain about Machine Translation 6

*****THE END*****