

G 7037

(Pages : 2)

Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, APRIL 2011

Eighth Semester

Branch : Computer Science and Engineering/Information Technology

ARTIFICIAL INTELLIGENCE (RT)

(Regular/Supplementary)

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. Why do we go for AI to solve a problem rather than conventional methods ?
2. What are methods of BFS and DFS ?
3. Define Heuristic functions.
4. What is meant by stimulated annealing ?
5. Differentiate games and search.
6. What are frames and semantic nets ?
7. Define Modus Ponens's rule.
8. What is meant by Resolution ?
9. How facts can be represented in prolog ?
10. What are Facts and Rules in Prolog ?

(10 × 4 = 40 marks)

Part B

Answer all questions.

Each question carries 12 marks.

11. What are objectives of AI problems ?

Or

12. Compare various searching strategies.

13. What is meant by constraint satisfaction search ? Explain with example.

Or

14. Explain the HILL clamping algorithm.

15. Draw and explain use of semantic network for the following statement "Raju went to Calicut to deposit fees to write MBA examination".

Or

Turn over

16. Compare the methodologies in Crames and Search problems.
- ✓ 17. Prove by resolution that "Collins should not be a suspect". From the premises : Victim died of a heart attack Killer was friend of victim. Apartment was blue and infact. Murder occurred in midnight. There is a reason to suspect that Collins murdered the victim.

Or

- ✓ 18. Explain an algorithm to compute well formed formula into the clausal form.
19. What are the important abstract data types of prolog ?

Or

20. Discuss with examples the Meta Predicates and Meta interpreters.

(5 × 12 = 60 marks)