

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAHMUNDRY

(Accredited by NAAC "A+" Grade)

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

Semester-IV: INTRODUCTION TO AI

MODEL QUESTION PAPER

Time: 2 ½ Hrs.

Max Marks: 50

SECTION - I

Answer any FIVE Questions

5 X 3= 15M

1. Write a short note on rationality?
2. Explain about structure of agents?
3. Write about Alpha-Beta pruning?
4. Explain about hill climbing?
5. Explain about dempstershafer theory?
6. Write a short note on Reinforcement Learning?
7. What are the applications of expert system?
8. What is predicate logic with example?

SECTION - II

Answer following question

5 X 7 = 35M

9. Explain about problem solving agents?

(OR)

10. What is AI? Explain about AI Problems?

11. Explain A* algorithm in detail with a suitable example.

(OR)

12. Describe the heuristic search technique applied to a hill-climbing problem with an example ?

13. Explain in brief about the issues in representation of knowledge?

(OR)

14. Explain about semantic nets?

15. Explain about Backward chaining?

(OR)

16. Explain about Inference in first order logic

17. What is Expert system? Explain different types of Expert system?

(OR)

18. Explain the following

i) Model based reasoning

ii) Case based reasoning