

MAY 2011

P/ID 17423/RTD

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) What is artificial intelligence? List some of the task domains of artificial intelligence.

Or

- (b) What is state space search? Discuss with an example.

2. (a) What is game tree? Discuss with an example.

Or

- (b) Discuss the issues in knowledge representation.

3. (a) Compare human and artificial experts.

Or

- (b) What is knowledge acquisition? Discuss the issues related to knowledge acquisition.

4. (a) What is forward chaining? Discuss with examples.

Or

- (b) What do you mean by expert system tool? Give examples. Discuss any one.

5. (a) What is perception? Discuss.

Or

- (b) What is competitive learning? Discuss.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Discuss on the following :

- (a) Heuristics search.
(b) Production systems.

7. (a) Discuss the properties of A* algorithm.
(b) With an example discuss backtracking graph search.

8. Discuss any two applications of predicate calculus.
 9. With examples discuss the stages in developing expert system.
 10. What is frame? Discuss the application of frames with examples.
 11. Write short note on the following :
 - (a) Meta knowledge
 - (b) Explanation facilities of an expert system.
 12. What is NLP? Discuss the issues related to NLP.
 13. Discuss on the following :
 - (a) Dendral.
 - (b) Neuralnets.
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