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Reg. No. : | | | | | | | | | | | |

Question Paper Code : Q 2162

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Sixth Semester

(Regulation 2004)

Computer Science and Engineering

CS 1351 — ARTIFICIAL INTELLIGENCE

(Common to B.E. (Part-Time) Fifth Semester Regulation 2005)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define an agent.
2. State on what basis search algorithms are chosen.
3. What is the advantage of heuristic function?
4. Define metareasoning.
5. Name two standard quantifiers.
6. What is the purpose of unification?
7. What is regression?
8. Define direct utility estimation.
9. What is speech act?
10. Information retrieval — Define.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the properties of environment.

Or

(b) Discuss any two uninformed search methods with examples.

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12. (a) Discuss how to minimize total estimated solution cost using A* search with an example.

Or

(b) Give a brief summary on backtracking search for constraint satisfaction problem.

13. (a) Explain the resolution procedure in detail.

Or

(b) Discuss forward and backward chaining.

14. (a) Give a brief overview on decision tree inductive learning algorithm.

Or

(b) Discuss the following:

(i) Passive reinforcement learning.

(ii) Active reinforcement learning.

15. (a) Describe augmented grammars with examples.

Or

(b) Give a brief description on information retrieval.

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