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

Question Paper Code: 36203

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Sixth Semester

Computer Science and Engineering

01UCS603 - ARTIFICIAL INTELLIGENCE

(Regulation 2013)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Define the constraint satisfaction problem.
2. Write an informal description for the general structure tree algorithm.
3. Define unification.
4. Differentiate: inference – based agents and circuit – based agents.
5. What is a SATPLAN algorithm?
6. What is the drawback of action monitoring? How it is overcome with plan monitoring?
7. Sate Bayes' rule.
8. What are the inferences in FOL?
9. List some applications where reinforcement learning is used.
10. Define entailment constraints.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain the various informal search strategies. (16)

Or

(b) Explain greedy best first search and A* search in detail. (16)

12. (a) Explain about propositional logic and inference. (16)

Or

(b) State and explain the various steps in knowledge engineering process. (16)

13. (a) Explain the concept behind partial order planning with examples. (16)

Or

(b) Explain the GRAPHPLAN algorithm and its termination. (16)

14. (a) Describe the approaches to uncertain reasoning. (16)

Or

(b) Explain the concepts of inference in temporal models. (16)

15. (a) Explain in detail statistical learning methods and reinforcement learning. (16)

Or

(b) Discuss explanation based learning in detail. (16)

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