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

Question Paper Code: 36203

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

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. Define ontological engineering.
7. Sate Bayes' rule.
8. What are the inferences in FOL?
9. Define entailment constraints.
10. What is the use of memorization?

PART - B (5 x 16 = 80 Marks)

11. (a) Discuss on different types of agent program. (16)

Or

(b) Explain the various informal search strategies. (16)

12. (a) Briefly explain the backward chaining mechanism. (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 in detail about the process of scheduling with resource constraints giving suitable examples. (16)

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

Or

(b) Explain the use of hidden markov models in speech recognition. (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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