

Reg. No. :

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 36203

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Sixth Semester

Computer Science and Engineering

01UCS603 - ARTIFICIAL INTELLIGENCE

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

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. State Bayes' rule.
8. What are the inferences in FOL?
9. Define entailment constraints.
10. What is the use of memorization?
11. Define the terms: agent, agent function.
12. Write an informal description for the general structure tree algorithm.

13. State Bayes' rule.
14. What are the inferences in FOL?
15. List some applications where reinforcement learning is used.

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Discuss on different types of agent program. (10)
17. Briefly explain the backward chaining mechanism. (10)
18. Discuss the continuous planning with examples. (10)
19. Explain the use of hidden markov models in speech recognition. (10)
20. Explain in detail statistical learning methods and reinforcement learning. (10)