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Question Paper Code: 46203

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

Sixth Semester

Computer Science and Engineering

14UCS603 - ARTIFICIAL INTELLIGENCE

(Regulation 2014)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Define artificial intelligence.
2. Define unification.
3. What are the different types of planning?
4. What is fuzzy logic? What is its use?
5. What is learning? What are its types?
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. Explain the general approach of informed search technique. (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 decision tree learning machine . (10)