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Question Paper Code: 31263

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

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. What is default reasoning?
8. What are the inferences in FOL?
9. List some applications where reinforcement learning is used.
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) Discuss the continuous 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 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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