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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (CSE) (2012 to 2017) (Sem.-7)

ARTIFICIAL INTELLIGENCE

Subject Code : BTCS-701

M.Code : 71893

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.

SECTION-A

1. What are the important elements of AI? (2×10)
2. What are the different types of the induction heuristics?
3. What is the need of probability theory in uncertainty?
4. What is partial order planning?
5. What are fuzzy sets?
6. What is learning by induction?
7. What is probabilistic learning?
8. What is formal grammar?
9. What is first order logic?
10. Define percept sequence of an Agent.

SECTION-B

11. What are the problem types in AI? Explain. (5)
12. Distinguish between Predicate and Propositional logic with examples. (5)
13. Compare hierarchical and conditional planning. (5)
14. Explain various types of learning methods in neural networks. (5)
15. Explain the phases in natural language processing. (5)

SECTION-C

16. Explain simplified memory bounded A*(SMA) searching technique in detail. (10)
17. Discuss various steps involved in natural language processing. (10)
18. Discuss the steps involved to convert wff to clause form. (10)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.