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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(CSE) (2011 Onwards) (Sem.-7,8)

ARTIFICIAL INTELLIGENCE

Subject Code : BTCS-701

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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 is an expert system?
2. Explain fuzzy set.
3. What is the relevance of search and control strategies in problem solving?
4. What are the Problem Characteristics of Artificial Intelligence?
5. What is Heuristics?
6. Distinguish between fact and Predicate.
7. Explain the Bayesian Networks.
8. Explain Fuzzy logic.
9. What is conditional planning?
10. What is state space?

SECTION-B

11. Describe briefly the applications of reinforcement learning.
12. Explain with examples 'Decision Trees'.
13. Explain Bayesian networks with example.
14. What are the advantages of Genetic Algorithms?
15. Distinguish between Forward and backward chaining.

SECTION-C

16. Explain A* algorithm with example.
17. List various components of natural language understanding process. Describe syntactic analysis and semantic analysis in brief.
18. What are the limitations of Predicate logic as a tool for Knowledge representation? Illustrate through examples.

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.