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M.Tech.(IT) E-IV (2015 & Onwards) (Sem.-3) M.Tech. (CSE Engg.) EI-I (2015 to 2017)

ADVANCE ARTIFICIAL INTELLIGENCE

Subject Code: MTCS-306 M.Code: 74156

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- Each question carries TWENTY marks.
- a) Discuss the concept of Single and multi-agent using example.
 - b) Compare autonomous versus semi-autonomous.
- a) Write a short note on informed search. Discuss the functioning of A* search.
 - b) How local search methods are used in finding the solution of constraint satisfaction problem?
- a) Explain the principle of Genetic Algorithm by taking suitable example.
 - b) How Alpha-beta pruning is used in finding the solution in game such as chess?
- a) What is preposition logic? Write its equivalence rules for logic formulas.
 - b) Write a short note on conceptual dependencies.
- a) Discuss the knowledge representation using Bayesian networks.
 - b) Write a short note on decision theory preferences and utility functions.
- a) Explain in detail the Agent theory and its architecture.
 - b) What is the main purpose of Information gathering Agents?
- Define :
 - a) Expectimax search
 - b) Hidden Markov Models
 - c) Software Agents
- 8. Discuss the basic principle of biologically inspired models. How they can be used to solve NP Hard Problems?

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.

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