Total No. of Questions:8]

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Roll No

MCIT - 204 M.E./M.Tech., II Semester

Examination, June 2016

Soft Computing

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- Explain A* algorithm and compare with AO* algorithm.
 - What is predicate logic? Explain monotonic reasoning.
- Explain breadth first search algorithm with suitable example.
 - What is Artificial Neural Network? Explain basic models of Artificial Neural Network.
- Why is the McCulloch-Pitts neuron widely used in logic functions.
 - Implement AND NOT function using McCulloch-Pitts neuron.
- What is fuzzy logic? Explain history of the development of fuzzy logic.
 - With a suitable application case study explain a fuzzy logic controller.

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- State the decision function for a multi objective decision making.
 - Explain Data clustering algorithms.
- Explain Job shop scheduling problem using simulated annealing.
 - Explain types of fuzzy inference system in detail.
- Compare and contrast traditional and genetic algorithm. State the importance of genetic algorithm.
 - Briefly discuss the various components of genetic algorithm.
- What do you understand by Regression tree in Neuro-8. a) fuzzy modeling? How does it differ from the classification tree?
 - Explain the following with example
 - i) How crossover and mutation is carried out
 - ii) Reproduction

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