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Total No. of Questions: 8]

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## MCIT-204

## M.E./M.Tech., II Semester

Examination, December 2017

## **Soft Computing**

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

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ii) All questions carry equal marks

Write the algorithm for deciding entailment in propositional logic.

Explain standard quantities of first order logic with example.

Explain A\* afgorithm. Take any example to elaborate the algorithm.

What is knowledge representation? Discuss the problems in representing knowledge.

Differentiate the structure and function of a biological Neuron and Artificial Neuron.

What do you mean by linear separable problem? Also state the differences between radial basis function networks and multilayer perceptions.

4. a) Draw and explain the architecture of Hopfield network? Mention the applications of Hopfield networks.

Discuss the important features of Kohonen self organizing maps. Also give its applications.

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Compare and contrast classical logic and fuzzy logic. Why the excluded middle law does not get satisfied in fuzzy logic.

What are various types of composition techniques? Discuss fuzzy composition techniques with on example.

What is mamdani type fuzzy inference system? Explain in working with the help of diagram.

Draw a flowchart and explain an evolutionary algorithm.

Design a fuzzy logic controller to simulate a temperature control system for a room.

How TSP can be solved using genetic algorithm? Describe operations performed in different phases.

Discuss few applications of hybrid fuzzy GA systems and neuro fuzzý systems.

Write short notes: (any two)

i) Cross over operation

ii) Regression trees

iii) Classification

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