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Roll No

MCIT-204

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

Examination, December 2016

Soft Computing

Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Explain AO* algorithm and compare with A* which algorithm is best than other? Justify your Answer.
b) What is production system? Give the comparison between breadth first search and depth first search.
2. a) Explain local maxima and global maximum with respect to the hill climbing with a diagram.
b) What are the similarities and dissimilarities between fuzzy logic and Neural networks?
3. a) Explain the Back propagation network with architecture algorithm and an example.
b) List and explain the various activation functions. Also explain their suitability with respect to application.
4. a) Explain fuzzy reasoning with its methods in details.
b) Describe multiobjective and multiattribute decision making.
5. a) Explain any four defuzzification methods with suitable example.
b) Explain data clustering algorithms.

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6. a) Explain the concept of clustering. Explain any two methods of data clustering.
b) Explain Evolutionary computation.
7. a) Explain survival of the fittest with the suitable example.
b) Explain genetic algorithm and their types.
8. Write short notes on any three :
 - a) Rank space method
 - b) Fuzzy sets
 - c) Crisp set
 - d) Fuzzy logic theory
 - e) Gaussian machine
