Code: 9A02707

R09

B.Tech IV Year I Semester (R09) Supplementary Examinations, May 2013

SOFT COMPUTING TECHNIQUES

(Electrical and Electronics Engineering)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

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1   Describe the basic concepts of neural networks.

2   (a)   Explain the artificial neuron model.
    (b)   Describe supervised learning networks.

3   (a)   Write short notes on perceptrons.
    (b)   Describe radial basis function networks.

4   Explain training algorithms for pattern association.

5   (a)   Explain fuzzy relations.
    (b)   Describe membership functions.

6   Explain fuzzification and defuzzification in detail.

7   (a)   Describe the basic operators of a genetic algorithm.
    (b)   Explain when genetic algorithms are used.

8   Describe fuzzy logic based approach to solve the unit commitment problem.

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