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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