Code: 9A15705

R09

B.Tech IV Year I Semester (R09) Supplementary Examinations, May 2013
SOFT COMPUTING
(Computer Science and Systems Engineering)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1 (a) Discuss problem characteristics.
   (b) Explain best-first search algorithm.

2   Solve the following crypt arithmetic problem using constraint satisfaction procedure:
      CROSS + ROADS = DANGER

3 (a) Discuss back propagation neural network model.
   (b) Write short notes on supervised learning networks.

4 (a) Explain hamming network.
   (b) Discuss vector quantization applications.

5   Discuss adaptive resonance theory network in detail.

6   Write a brief notes on the following:
   (a) Membership value assignments.
   (b) Fuzzy relations.

7   Discuss fuzzy decision making in detail.

8   Explain fuzzy control system applications.

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