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Exam. Code 206701

Subject Code: 4680

M.Sc. Computer Science 1st Semester

SOFT COMPUTING Paper-MCS-105

Time Allowed—3 Hours [Maximum Marks—100

Note:— There are four sections, each have two questions. Attempt any five questions, selecting at least one question from each Section. All questions carry equal marks.

SECTION-A

- Which are various applications of Neural Network? Discuss in detail about the Perception Neural Network.
- Explain the following:
 - (a) Back-propagation neural network.
 - (b) Adalines and madalines.

SECTION-B

- 3. Which are various differences between supervised and unsupervised learning?
- Explain in detail adaptive resonance theory. What is 4. its operational principle?

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SECTION-C

- 5. What are genetic algorithms? Explain the major components of Genetic algorithm. Give an example of G.A. for maximization problem.
- 6. Explain various applications of fuzzy logic. What do you mean by neuro-fuzzy systems?

SECTION-D

- 7. Explain the relation between conditional probability and Baye's theorem.
- 8. Explain the relationship between fuzzy logic and probability theory.