C 62939

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Name.....................

Reg, No.....................

SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE [SUPPLEMENTARY] EXAMINATION, APRIL 2014

(2009 Scheme)

CS 09 706 L19—SOFT COMPUTING

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

I. (a) Define soft computing.

   (b) What do you mean by artificial neural network ?

   (c) What is the main difference between probability and fuzzy logic ?

   (d) Define Cross over point.

   (e) List the advantages of neural networks.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

II. (a) Explain the operators in genetic algorithm.

   (b) State the importance of genetic algorithm with an example.

   (c) List the characteristics of unsupervised learning.

   (d) Write short notes on Fuzzy relations.

   (e) Define membership function and state its importance in fuzzy logic.

   (f) Mention the advantages of SVM.

(4 × 5 = 20 marks)

Part C

Answer all questions.

III. (a) Explain the working of Simulated annealing with an example.

Or

   (b) Discuss the major goals and genetic algorithm designing issues.

IV. (a) Explain briefly about Competitive Networks with example.

Or

   (b) Write short notes on Hopfield Network along with its limitations.

Turn over

V. (a) Explain the major applications of Fuzzy Relations.

Or

   (b) Explain Operations on Fuzzy sets with an example.

VI. (a) Explain in detail about the SVM applications with example.

Or

   (b) Discuss the role of Harmony search in problem solving.

(4 × 10 = 40 marks)