CS - 801 B.E. VIII SemesterExamination, June 2015

Soft Computing

Time: Three Hours http://www.rgpvonline.com Maximum Marks: 70

Note: i) All questions carry equal marks.

ii) There is internal choice in questions.

UNIT-I

- 1. a) What is soft computing? Why it Cell soft?
- b) What is artificial intelligence? How it differ from natural Intelligence?

OR

- 2. a) What are the differences between scripts and frame Structures in knowledge Representation?
- b) Explain A* and AO* algorithm with suitable example.

UNTT-II

- 3. a) How MAD ALINE network Differ from AD ALINE Network?
- b) Describe back propagation training algorithm for the activation function, which is an arctan function?

OR

- 4. a) Give difference between ANN and artificial intelligence.
- b) What is learning? Explain difference between learning and Training?

UNIT-III

5. a) What is ART? Explain Rules and Applications, b) Explain Counter propagation Network.

OR

- 6. a) Explain Chinese character Recognition method using ART2.
- b) What do you mean by Associative memory of Neural network?

UNIT-IV

- 7. a) Explain fuzzy logic and fuzzy quantifiers with example.
- b) What is Defuzzification? Explain with example.

OR

- 8. a) Give difference between Fuzzy logic and predicate logic.
- b) What is Generalized Modus Ponens and Generalized Modus Tollens?

UNTT-V

- 9. a) What is Optimization? Explain ant colony optimization,
- b) Explain the Genetic Algorithm cycle with example.

OR

- 10. Write short notes on Following. (Any Four):
- a) Constrained optimization. b) Hybrid systems. c) Convergence of G.A
- d) Neuro Genetic System. e) Fuzzy logic controlled GA.