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**CS - 801 (GS/NGS)****B.E. VIII Semester**

Examination, June 2014

**Soft Computing***Time : Three Hours**Maximum Marks : 70*

**Note:** All questions carry equal marks. There is internal choice in questions.

**UNIT-I**

1. a) What is artificial intelligence? How it differs from Natural Intelligence?
- b) Compare soft computing and hard computing.

OR

2. a) What do you understand by Natural language processing?
- b) Give differences between monotonic reasoning and non-monotonic reasoning.

**UNIT-II**

3. a) How ANN differ from human brain?
- b) Explain the Neural Network Architectures.

OR

4. a) Explain different learning methods in neural networks.
- b) What do you understand by back propagation learning of NN?

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**UNIT-III**

5. a) Explain the working of Associative memory.
- b) Give difference between BAM and HAM.

OR

6. a) Explain classical ART networks with examples.
- b) Explain functions and characters of counter propagation networks.

**UNIT-IV**

7. a) Explain fuzzy Vs CRISP sets?
- b) What is defuzzification and explain widely used methods COM, COS and MOM.

OR

8. a) Explain working of simplified fuzzy ART MAP.
- b) Explain fuzzy Associative memories.

**UNIT-V**

9. a) What is Fitness function? Why is it necessary?
- b) What is Reproduction? Give various methods of selecting chromosomes for parents to cross over.

OR

10. a) What are different mutation operators.
- b) What is convergence of Genetic Algorithms?

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