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Roll No

CS - 801 (GS/NGS)

B.E. VIII Semester

Examination, June 2014

Soft Computing

Time : Three Hours

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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?

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.

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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?
