

Roll No

IT-802 (GS)

B.E. VIII Semester Examination, June 2020

Grading System (GS)

Soft Computing

Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. What is the signification of Widrow's learning for linear associative network?
OR
State the training procedure of Kohonen layer and Grossberg layer in counter propagation network.
2. What is ART? Apply an ART algorithm to the following data.
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3. Write short note on Fitness function, crossover rate, mutation rate, encoding in GA with example.
4. What is reproduction? List the various methods of selecting chromosome for parents to crossover.
5. Explain biological model of ANN. Compare it with McCulloch and pitts model.
6. What is Kohonen SOM? Write its algorithms.
OR
Explain how Fuzzy logic control can be used in temperature controlling system.
7. How is Genetic Algorithm differ from traditional algorithm? Classify the types of coding employed in Genetic Algorithm?
8. Write a short notes (any four)
 - a) ART
 - b) Feed back Network
 - c) Data compression
 - d) Intrusion detection
 - e) Schema theorem
