Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

CS-801-GS

B.E. VIII Semester

Examination, December 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. a) Explain various types of production systems.
 - b) Discuss with example hill climbing techniques.
- 2. a) Define the architecture of perceptor? Explain Linear separability?
 - b) Explain in detail the algorithm for Hoff role used in patient association.
- 3. a) Compare and contrast Supervised, Unsupervised and Reinforcement learning.

b) Explain the working of counter propagation network by giving its architecture.

- 4. a) Discuss the applications of Genetic algorithm.
 - b) What is similarity between GA and other traditional methods?

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5. a) Let a function $f(x) = x - \frac{x^2}{16}$ be defined on the interval

[0, 31]. Apply Genetic Algorithm for determining the maximum of the given function (Assume suitable missing data).

- b) Explain different types of mutation function in Genetic Algorithm?
- 6. Write short notes on:
 - a) Crossover operator and its types
 - Tournament and Rank Selection b)
- 7. a) Give the properties on fuzzy sets and also explain the operations involved in it?
 - b) Explain in detail the generation cycle of genetic algorithm.
- 8. Explain Generalized Modus Ponens (GMP) and Generalized Modus Tokens (GMT) with help of an example. downwar de

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