

No. of Printed Pages : 03

Roll No.

18G112

B. Tech. EXAMINATION, 2024

(Seventh Semester)

(C-Scheme) (Re-appear Only)

(CSE)

CSE443C

SOFT COMPUTING

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) What is Supervised and Unsupervised Machine learning algorithm ? **5**
(b) What is Soft Computing ? Explain the evolution of AI from conventional methods to Computational intelligence. **10**
2. Explain linear regression machine learning algorithm in detail. **15**

Unit II

3. What is Fuzzy logic ? Explain Fuzzy sets and their operations. **15**
4. (a) Explain fuzzy rules and fuzzy reasoning. **7**
(b) Explain Fuzzy decision making system. **8**

Unit III

5. What is Neural Network ? Explain reinforcement learning with neural network. **15**

6. Explain Supervised Neural Network with their merits and demerits. **15**

Unit IV

7. What is Genetic Algorithm ? Explain its applications in Machine learning. **15**
8. Explain how to use fuzzy logic toolbox with basic features. **15**