

Roll No.

22643

**M. Tech. 2nd Sem. (CSE) CBCS Scheme
Examination – May, 2024**

SOFT COMPUTING

Paper : MTCSE22C1

Time : Three Hours] [Maximum Marks : 100

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

Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Write short notes on the following : 20

(i) Associative memories

(ii) Fuzzy logic

(iii) Fuzzy Propositions

(iv) Crisp set

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UNIT – I

2. Explain the following : 20
- (i) Supervised, Unsupervised and Reinforcement Learning.
 - (ii) Biological Neuro-system. —
3. Describe the following : 20
- (i) Multilayer perceptron model
 - (ii) Application of ANN

UNIT – II

4. Give a complete description about fuzzy logic. 20
5. Explain the following operations on fuzzy sets. 20
- (i) Union
 - (ii) Complement

UNIT – III

6. Explain the following : 20
- (i) Fuzzy Lattice
 - (ii) Arithmetic operations on intervals

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7. Describe the following : 20
- (i) Multivalued logics
 - (ii) Linguistic hedge

UNIT – IV

8. Explain the following : 20
- (i) Uncertainty and its types
 - (ii) Crisp sets
9. Describe the concept of fuzziness in detail. 20
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