

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, June 2024**Neural Networks****(CSE-AIML)**

Roll No									

Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

			BCLL	CO(s)	Marks
<u>SECTION-I</u>					
1	A	What is Neural Networks? Explain Biological nature of Neuron with diagram	L1	CO-I	[7M]
	B	Explain single layer Neural network architecture with diagram	L2	CO-I	[7M]
OR					
2	A	Determine the importance of Recurrent Neural Networks	L2	CO-I	[7M]
	B	Differentiate the Auto-Associative and Hetro-Associative memory with example	L1	CO-I	[7M]
<u>SECTION-II</u>					
3	A	What is Perceptron? Explain multilayer perception model with example	L3	CO-II	[7M]
	B	Define Back Propagation? Explain what are the factors affecting back propagation training.	L2	CO-II	[7M]
OR					
4	A	Explain Back propagation learning methods with examples	L3	CO-II	[7M]
	B	Explain Architecture of Neural Network and its applications	L2	CO-II	[7M]
<u>SECTION-III</u>					
5	A	Compare the Fuzzy sets and Crisp sets with example	L3	CO-III	[7M]
	B	Explain Fuzzy and Crisp relations with example	L4	CO-III	[7M]
OR					
6	A	Explain the Fuzzy to Crisp conversion with example	L3	CO-III	[7M]
	B	Explain the Fuzzy set theory and operations with example	L2	CO-III	[7M]
<u>SECTION-IV</u>					
7	A	What is Fuzzy Controller? Explain Industrial applications with example	L4	CO-IV	[7M]
	B	Explain interference in fuzzy logic using fuzzy if-then rules.	L2	CO-IV	[7M]
OR					
8	A	Explain the Fuzzy implications and Fuzzy algorithms.	L3	CO-IV	[7M]
	B	Compare the methods of Fuzzyfications and De-fuzzificataions with example	L3	CO-IV	[7M]
<u>SECTION-V</u>					
9	A	What is Genetic Algorithm? Write procedures of Genetic Algorithm.	L3	CO-V	[7M]
	B	Draw flowchart of Genetic Algorithm? Explain Genetic representations with example	L3	CO-V	[7M]
OR					
10	A	Explain importance of selection, Crossover mutation operators in Genetic Algorithm	L4	CO-V	[7M]
	B	What is Generational Cycle? Explain applications of Genetic Algorithm.	L3	CO-V	[7M]
