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 SHARDA UNIVERSITY <i>Beyond Boundaries</i>		School of Computing Science and Engineering Department of: Computer Science and Engineering					
Assignment-1, Session: 2025-2026 [Programme: B.Tech. CSE] [Semester: IV]							
Course Title: Concepts of Neural Networks				Max Marks: 20			
Course Code: CSA2023							
Instructions:		1. All questions are compulsory 2. Assume missing data suitably, if any 3. All questions should be of higher learning.		BTL Level (K)			
Unit 1		CO1: Define the biological significance of Neural Networks and list ANN components.					
Unit 2		CO2: Classify various learning paradigms based on real file problems.					
Q.No.	Section A (4×3=12 Marks)				Unit	COs	K
1	Explain the structure of a biological neuron and its components.				Unit 1	CO1	K1
2	Explain what happens if an ANN uses only linear activation functions?				Unit 1	CO1	K2
3	Explain Learning Paradigms and their real Applications.				Unit 2	CO2	K3
4	Explain the justification of why Unsupervised Learning cannot use error for optimization. Support with clustering example.				Unit 2	CO2	K3
Section B (2×4=8 Marks)							
5	Explain different network topologies: feedforward, recurrent, and fully connected networks.				Unit 1	CO1	K3
6	Illustrate Supervised Learning is a function approximation problem. Explain with a real-life example.				Unit 2	CO2	K4