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Department of Computer Science & Engineering

Home Assignment 1

Programme Name: MCA.

Semester: III

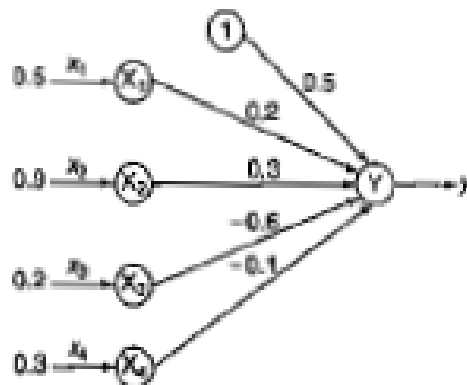
Course Code: CS33103

Course Name: Soft Computing

Instructions:

1. This is a handwritten assignment. You need to scan the written assignment and post the solution. You can keep the hard copy for preparation of examination.
2. Last date of submission is 20/10/2020.

For the network shown in figure, calculate the net input to output



Mapped to
CO number

1. Design Neural Network with only one M-P neuron that implements the three basic logic operations
NOT, AND, NOR
2. Use the Hebb rule method to implement XOR Function (take bipolar input and output)
3. Justify XOR function is non linearly separable by a single decision boundary line.
4. Differentiate between supervised and unsupervised learning.