Manarat International University (MIU)

Full Points: 20   Extra   Time: 25 Minutes

ID ....

1   Model the following 3-input Boolean function using perceptron   6
    learning algorithm.

X_1	X_2	X_3	y
1	0	0	−1
1	0	1	1
1	1	0	1
1	1	1	1
0	0	1	−1
0	1	0	−1
0	1	1	1
0	0	0	−1

2   Why perceptron learning algorithm can't find the right solution for XOR classification   4
    problem.

3   Mention the general characteristics of Artificial Neural Network.   6

4   Do the weight update formula of ANN get trapped in a local minimum ? Why ?   4