

Zarka Private University
Faculty of Science - Department of Computer Science
Third Examination – Second Semester 2002 - 2003
Neural Networks 0306483

Date: 28 May 2003

Time: 1 Hour

Q1) [8 Marks]

Apply the perceptron-learning algorithm to design a perceptron that perform the following classification problem and draw the final design for the net.

x_1	x_2	x_3	y
-1	-1	1	1
1	1	-1	1
1	-1	1	-1
1	-1	-1	1
1	1	1	1

Q2) [7 Marks]

Consider a BAM with 5 X-layer units and 3 Y-layer units.

A- Find the weight matrix to store the following associations:

S	T
1 0 0 0 1	1 1 0
1 1 0 0 1	0 1 0
0 0 0 1 0	0 0 1

B- Apply the input vector (1 1 0 1 1) to the network.

Good Luck