Manarat International University (MIU)

Department of Computer Science and Engineering
CT-1 (Summer 2019)
Artificial Intelligence (CSE-411)

Full Points: 20   Male Section   Time: 25 Minutes

ID ……………………………………………………………………………...

1   Explain perceptron learning algorithm.   6

2   How are artificial neural networks similar to the brain?   4

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

4   6
   a) Greedy algorithms such as those based on the gradient descent method have been
      developed to efficiently solve the…………………………………………….

   b) Neural networks are quite sensitive to the presence of …………………….. in the
      training data.

   c) The contact point between a dendrite and an axon is called a …………….

   d) For nonlinear error function, it is possible that the gradient descent method may get
      trapped in a …………………………

   e) In the gradient descent method, one way to escape from the local minimum is to add
      a/an …..…………………..………. to the weight update formula.

   f) If the problem is not linearly separable, perceptron learning algorithm
      ……………….... to converge.