Manarat International University (MIU)

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

	Full Points: 20	Female Section	Time: 25 Minutes	
ID				
1	Write down the pseudo-code of perce	eptron learning algorithm.		6

2 Explain the weight update formula used by the gradient descent algorithm.

4

3	Why do	we need	back-pror	nagation	algorithm	to train	an ANN	model ?)
)	WIII UU	w c nccu	vack-prop	Jaganon	aigoriumi	to train	an Am	mouci :	

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

b) One approach to handling noise is to use a validation set to determine the of the model.

c) Finding the right is not an easy task for an ANN.

4

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

e) In a neural network, the links may connect nodes within the same layer or nodes from one layer to the previous layers.

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