National University of Computer and Emerging Sciences, Lahore Campus

Course:	AI		Course Code:	CS401
Program:	BS(Computer Science)		Semester:	Spring 2017
Duration:	10 Min		Total Marks:	5
Paper Date:	20-04-17		Weight	%
Section:	D		Page(s):	
Exam:	Quiz 4		Reg. No	

Instruction/Notes:

Question1 (5)

We are given a training data containing 6 features {x1, x2....x6} and one response {y} for certain multiclass classification problem. y can be amongst one of the following classes {c1, c2, c3, c4, c5}. The problem is linearly separable.

Draw a minimal Artificial Neural Network Architecture for the given problem. Also show the mapping of your ANN to the given classes.

Table 1Mapping of output to classes

y1	y2	y3	Class
0	0	0	C1
0	0	1	C2
0	1	0	C3
0	1	1	C4
1	0	0	C5