				m	·e-1	ser	n -60.	mp					30/	5109	
V-Ex-I	-09-0	G-Scan-	48 EJec	tive	-I	:- Ne	ural	Ne	etwor	hing	&	Fuzzy	Sy	ster	
Con. 3506-09.					nuadd	a.com		(3		BE	3-56	94		
	(3 Hours) [Total Marks: 1													00	
N.B.	N.B.: (1) Question No. 1 .is compulsory. (2) Attempt any four out of remaining six questions. (3) Assume suitable data wherever required but justify them.														
1. ((a) (b)													10 10	
2. ((a) (b)													10 10	
3. ((a) (b)	Explain the concept of linearly separable and linearly non-separable patterns. State different properties of fuzzy set. muadda.com												10 10	
4. ((a) b)													8 12	
((a) (b) (c)	Explain with an example Convex and Non-convex fuzzy sets. Explain with neat diagram supervised and unsupervised learning. Explain with example fuzzy relations.												6 6 8	
1	Design a fuzzy logic controller for a train approaching a station. The inputs are distance from the station and speed of the train. The output is brake power. Use (i) Triangular Membership function. (ii) Four descriptors for each variable, (iii) Appropriate defuzzification method. Prove the condition for which the brake power will be more.												ular ition	20	
7.	Wri	(a)	tes on the Neuro-L Charact	uzzy S	Systen	n. on usinį	g Neural		ork.			-		20	