	Roll No		b)	Prove that if linear activation. Function is used with ML	r
CS - 801				then its performance will be the same as single layer	0
				Unit - III	
B.E. VIII Semester		-		Briefly describe the Architecture of an ARTZ Network	
	Examination June, 2013	5.	a)	Briefly describe the Areintecture of an areinte	0
Soft Computing			LA	Full CPN is more efficient than the forward only CPN	٧:
			b)		10
	Time: Three Hours			Justify. RGPVONLINE.COM Or	
Maxii	num Marks: 100 Minimum Pass Marks:35	6.	a)	Give the limitations and applications of Hopfield Netwo	rk
Note:	Attempt one question from each unit. Each unit have internal	0.	4)	and Boltzmann machine.	10
choice. Assume data/value, if required.			b)	Consider a recurrent Auto Associative net used to sto	re
			0)	the vector [1 1 -1 1]. Determine whether it recognizes	i a
	Unit - I			stored vector with three missing components (00-10)),
1. a)	Discuss the various techniques of soft computing. 10			(1000), (0100), (0001).	10
b)	Algorithm A* does not terminate until a goal node is			Unit - IV	
	selected for expansion. How ever, a path to the goal node	7.	a)	Suppose there are five people in a story writing	ng
	might be reached long before that node is selected for	5.5	/	competition. Assume their relative goodness	of
	expansion. Why does not it terminate as soon as a goal node has been found? Illustrate your answer with an example.			performance is given by a fuzzy set F as {(P ₁ , 0	5),
				$(P_2, 0.7), (P_3, 0.9), (P_4, 0.4), (P_5, 0.7)$ proposition. The	ere
	RGPVONLINE.COM 10 Or			are about two persons who had good performance.	10
2. a)	Explain the problems in hill-climbing techniques along		b)	The transitivity property of conventional (crisp) sets sta	tes
	with ways to solve this problem.			that if $A \subset B$ and $B \subset C$ then $A \subset C$. Is this property satisf	ied
b)	Show that the following formula are valid by giving			by fuzzy sets. Explain.	10
- 0	tableau proof of each of 10			Or	
	$\sim (A \lor B) \leftrightarrow (\sim A \land \sim B)$	8.	a)	Deline crisp sets with its rundamental concept	10
	Unit - II		b)	Explain the features of membership functions.	10
3. a)	State the training and application algorithm of the Adeline			Unit - V	
	net. 10	9.	a)	Write short note on mutation operator.	10
b)	Explain in detail the algorithm for Hebb Rule used in		b)	Describe the working principle of genetic algorithm.	
	pattern association. 10				10
nati vesin	Or			Or	
4. a)	Why Training Algorithms are required? Explain widrow	10	0. a)	Explain advanced in GA.	10
CS 901	and HOFF's learning rule.		b)		10
CS-801	PTO	1196		*****	
		C	S-801	9.965a1,05.96a(4) ()	