B.Tech - CSE

Term-End Examination December, 2012

BICSE-003: NEURAL NETWORK

Time: 3 hours			Maximum Marks: 70		
Not		ttempt any seven questions. ssume the missing data, if a n			
1.	(a)	How does a single neuro	n work ?	5	
	(b)	What can neural network		5	
2.		How can neurons and neural networks be made to learn? Explain in detail.			
3.	Writ (a) (b)	te short notes on the follow Linear separability. Perceptron.	rings : 5x2 =	=10	
4.	What is the advantage obtained by modifying the Adaline training algorithm to include the heuristic of the pocket algorithm (storing the best recent vector)? Explain in detail, if any.			10	

- 5. How may Marchand's algorithm be modified to work for multiclass problems?
- 6. Describe the radial basis function (RBF). Also 10 show the importance of RBF in neural networks.
- 7. Justify the statement show that the methods such as simulated annealing and evolutionary algorithms often obtain better solutions than gradient descent or hill-climbing.
- 8. Give a detailed architecture of Adaptive 10 Neuro-Fuzzy Inference Systems (ANFIS). Also discuss about hybrid learning algorithm.