Exam. Code : 208604 Subject Code: 4694

M.Sc. (Information Technology) Samester_

		(211101211601101101101067) Deliterated 14		
1	MIT-	-403 : ARTIFICIAL NEURAL NETWORK	S	
Time Allowed—3 Hours] [Maximum Mar			-100	
		Note: — Attempt any FIVE questions.		
1.	(a)	What is Artificial Neural Network? Explain basic model of an artificial neuron.	n the	
	(b)	Explain the various possible architectures for a network.	eural 10	
2.	(a)	Discuss the classification of neural network learnles in detail.	rning 12	
	(b)	Explain the LMS algorithm.	. 8	
3.	also	Explain the Rosenblatt's Perceptron model in detail and also discuss why this model cannot handle tasks which are not linearly separable.		
4.	(a)	Explain pocket learning algorithm without rate	ches.	
	(b)	Discuss linear machines learning algorithm.	10	
5.	Exp	plain Hopfield model and its applications in deta	ail. 20	
6.		at is Stability-Plasticity Dilemma? Explain itectures of ART1 and ART2 networks.	the	

6938(2517)/STB-14088

a2zpapers.com

(Contd.)

1

- Explain back-propagation learning in detail and also write the algorithm for back-propagation learning.
 - Compare the performance of Artificial neural network 8. and biological neural network in terms of speed of processing, size and complexity, storage, fault tolerance. 10
 - (b) Write various applications of back-propagation learning. 10

6938(2517)/STB-14088

2

1600