B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination June, 2014

BICSE-003: NEURAL NETWORK

Ti	me : 3 i	hours		Maximum Marks : 70			
No		nswer any qual marks.	seven question	ns. All o	uestions c	arry	
1.	Define neural network. What do you mean by biological activations of a neuron? Explain with neat diagram and also explain the functiona units.					ļ	
2.	(a)		cket algorithm he algorithm.	. Write	down the	5	
	(b)	Write the	Back Propagati	on algor	ithm.	5	
3.	(a)		the expansion		dalines ?	5	
	(b)		way is the Acted te down the alg		algorithm	5	
4.	Write short note		s on the followi	ng:			
	(a)	Marchandi isolation p	's algorithm app roblem.	plied to t	he corner	5	
	(b)	Network algorithm.	development	using	Upstart	5	
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5.	(a)	Draw and explain the recurrent network with hidden nodes, to which Williams and Zipser's training procedure can be applied.	5
	(b)	Write the steps for supervised training algorithm for a network proposed by Williams and Zipser.	5
6.		t is Supervised learning and Unsupervised ing? Differentiate between the both of	10
7.	(a)	Explain the architecture of the full counter propagation neural networks.	5
	(b)	Briefly write the points for adaptive resource theory.	5
8.	(a)	What is a selective-attention network? Explain with a neat sketch.	5
	(b)	Write a short note on storage capacity of Hopfield networks.	5
9.	(a)	What is gradient descent and how is it explained using Hopfield network models?	5
	(b)	Write the algorithm steps for Stimulated Annealing.	5
10.		at are the applications of neural networks? lain with any 5 examples.	10