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BICSE-003

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

Term-End Examination

June, 2019

BICSE-003: NEURAL NETWORK

Tin	ne : 3 hours	Maximum Marks : 70	
Note: Attempt any seven questions. All questions carry equal marks. Assume missing data, if any.			
1.	What is Neural Network? Exp. classes of network architecture suitable diagram.		
2.	Describe Back Propagation Alg	orithm with the	
3.	What are Hopfield networks? Hopfield network in detail.	Explain discrete	
4.	What is simulated annealing a move generation and move accept		

10

5.	. What are the applications of neural network			
	Expl	ain with any five examples.	10	
6.	(a)	How does Fuzzy theory differ from Probability theory?		
	(b)	Describe the major components of an Adaptive Neuro-Fuzzy Inference System.	5+5	
7.	Explain how an unsupervised learning mechanism can be adopted to solve supervised learning tasks with the help of Linear Vector			
	Qua	ntization (LVQ) algorithm.	10	
8.	What do you mean by Knowledge Engineering? Explain various stages of Knowledge Acquisition.			
9.	Disc	uss Hebb's Rule in context of supervised and		
	unsupervised learning.			
10.	Write short notes on any two of the following: 2>		=10	
	(a)	Polynomial Networks		
	(b)	Associative Memory Networks		
	(c)	Perceptron Training Algorithm		