NHELL

QP Code: 31592

(3 Hours)

[Total Marks :80

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N.	B. 1) Question No. 1 is compulsory.	1
	2) Solve any three questions out of remaining five questions.	1
	3) Draw neat labeled diagram wherever necessary.	
	4) Answers to each new question to be started on a fresh page.	
21:	2) Solve any three questions out of remaining five questions. 3) Draw neat labeled diagram wherever necessary. 4) Answers to each new question to be started on a fresh page. Solve any four Explain unsupervised neural networks with block diagram	(5x4)
))	Explain unsupervised neural networks with block diagram Draw and explain neural networks based AND and OR functions	
)	What are the important properties of activation function used in neural	
	networks?	
(1)	Explain Radial Basis function neuron with the help of diagram	
e)	In which type of applications fuzzy logic is used? Explain with an	
	example.	
		(10)
Q.2 A)	Explain with diagram and training algorithm the Kohonen's Self	
	Organized Feature Map neural network and its applications Explain the working of Radial Basis Function neural network as	(10)
Q.2 B)	function approximation. Write any four basic advantages of radial basis	Asia di Sila
	function approximation. Write any four business	
	function neural networks	
		(5)
Q.3A)	i) What is fuzzification Explain with an example	
	ii) Describe max-min composition and max-product composition with a	(5)
	Explain perception learning algorithm and develop perceptron network	(10)
Q.3 B)		
	unipolar. Assume initial weight and bias values equal to zero. Consider	
	learning rate equal to one	(*)
	s whether training of neural	(10)
Q.4 A)	What are the performance measures to see whether training of neural	80 5
	enetwork is successful? Explain	
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Q.4 B)	What is defuzzification? Explain various methods of defuzzification.	(10)
Q.5,A)	Describe hand written character recognition using Neural Networks.	(8)
Q.5:B)	i) Describe with diagram application of Fuzzy logic in image contrest enhancement ii) Write any four properties of fuzzy sets.	(8) (4)
Q.6.A) Q.6.B)	Describe Neural Network based face recognition with block diagram i) Describe Fuzzy Inference System with a block diagram and its application in fuzzy control of washing machine	(8) (8)
	ii) Explain with diagram a) Union of fuzzy sets by Intersection of fuzzy sets	(4)
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