

				Sub	ject	Coc	le: k	CA	042
Roll No:									

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MCA (SEM IV) THEORY EXAMINATION 2021-22 **NEURAL NETWORK**

ttemp	SECTION A ot all questions in brief. 2x1					
Qno	Questions					
(a)	Define error correction learning.					
(b)	What is the neuron importance in neural network?					
(c)	How activation function works?					
(d)	Differentiate between Aggregation and Activation function.					
(e)	Define single layer network.					
(f)	Differentiate between local minima and global minima.					
(g)	How recurrent network works?					
(h)	What do you mean by principal component analysis?					
(i)	Define soft computing with example.					
(j)	What do you mean by special networks?					
	SECTION B					
	ot any three of the following:					
Qno	Questions					
(a)	Discuss the relevant computational properties of the Human Brain?					
(b)	What is perceptron? Write the differences between Single Laye Perceptron(SLP) and Multilayer Perceptron(MLP).					
(c)	What is RBF? Explain RBF properties with example.					
(d)	Illustrate the independent component analysis with proper example.					
(e)	Differentiate between complex valued NN and complex valued BP.					
	SECTION C					
	et any <i>one</i> part of the following:					
Qno	Questions					
(a)	Define knowledge representation and explain it with proper example.					
(b)	What is Supervised learning and how it is differ from unsupervised learning					
	ot any <i>one</i> part of the following:					
Qno	Questions					
(a)	Discuss the bench mark problem in neural network.					
(b)	Illustrate about the McCulloch-Pitts neuron model with diagram.					
ttemp Qno	ot any one part of the following: Questions					
λ_{110}	Write the algorithm of generalized delta rule(Back Propagation Algorithm)					
(a)	and explain with example.					
	Evenlein Multi lavan navnal astronils svith same 1					
(b)	Explain Multi-layer neural network with proper diagram.					
(b) ttemp	ot any <i>one</i> part of the following:					
(b) ttemp Qno	ot any one part of the following: Questions					
Qno (a)	Questions Discuss in brief about Kohonen self-organizing feature maps architecture.					
(b) ttemp Qno (a) (b)	Questions Discuss in brief about Kohonen self-organizing feature maps architecture. Explain the architecture of Learning vector quantization.					
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(b) ttemp Qno (a) (b)	Questions Discuss in brief about Kohonen self-organizing feature maps architecture. Explain the architecture of Learning vector quantization.					