

Model Question Paper-1/2 with effect from 2021(CBCS Scheme)

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7th Semester B.E. Degree Examination Deep Learning

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	Explain the historical trends in deep learning.	L2	1	10
	b	Define machine learning. Explain different types of ML algorithms.	L3	1	10
OR					
Q.02	a	Explain in detail about the supervised learning approach by taking suitable ex.	L2	1	10
	b	Write a note on support vector machine and PCA.	L2	1	10
Module-2					
Q. 03	a	Explain the working of deep forward networks.	L2	2	10
	b	What is regularization? How does regularization help in reducing overfitting.	L3	2	10
OR					
Q.04	a	Explain briefly about gradient descent algorithm.	L2	2	10
	b	Discuss the working of Backpropogation.	L1	2	10
Module-3					
Q. 05	a	Explain Empirical risk minimization.	L1	3	10
	b	Explain the challenges occur in neural network optimization in detail.	L2	3	10
OR					
Q. 06	a	Explain AdaGrad and write an algorithm of AdaGrad.	L2	3	10
	b	Explain Adam algorithm in detail.	L1	3	10
Module-4					
Q. 07	a	Explain the components of CNN layer.	L2	4	10
	b	Explain Pooling with network representation.	L2	4	10
OR					
Q. 08	a	Explain the variants of the CNN model.	L2	4	10
	b	Explain structured output with neural network.	L2	4	10
Module-5					
Q. 09	a	Explain how the recurrant neural network (RNN) processes data sequences.	L3	5	10
	b	Discuss about Bidirectional RNNs.	L2	5	10
OR					
Q. 10	a	Explain LSTM working principle along with equations.	L2	5	10
	b	Write a note on Speech Recognition and NLP.	L2	5	10

*Bloom's Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the COs and POs to be attained by every bit of questions.