PRN:		Course Code :	AMT1703

Final Year **B. Tech** End Semester Examination Winter 2023

Deep Learning

Day and Date: saturday, 02/12/2023 Max Marks: **100**

Time : 2.00 to 5.00 PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain bias variance tradeoff.	08	2	1
	b)	Distinguish between Supervised, Unsupervised and Reinforcement Learning	08	4	1
		OR			
	b)	What is Overfitting and Underfitting, and How to Combat Them?	08	2	1
Q.2		**Attempt the following**			
	a)	Examine XOR problem in deep learning with example .	08	4	1
	b)	Classify different error functions	08	4	1
		OR			
	b)	Compare Deep and Shallow Network	08	5	1
Q.3		**Attempt any two from the following**			
	a)	Explain 3D CNN.	08	2	2
	b)	Give Importance of image augmentation in CNN	08	5	2
	c)	Explain LSTM in detail	08	2	2
Q.4		**Attempt any two from the following**			
	a)	Discuss about denoising autoencoders	08	5	3
	b)	Identify and explain different applications of autoencoders.	08	3	3
	c)	Explain with types stochastic gradient descent	08	2	3
Q.5		**Attempt any Two of the following**			
	a)	Justify the importance of ResNet	09	5	4
	b)	Define transfer learning and provide a basic explanation of the concept	09	1	4
	c)	Examine the role of generators and discriminators in GAN	09	4	4
Q.6		**Attempt any Two of the following**			
	a)	Examine the use of deep learning in natural language processing ?	09	4	4
	b)	Explain how to formulate automatic speech recognition(ASR) ?	09	5	4
	c)	Identify the use of deep learning in computer vision task	09	3	4

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