

VIII CS Deep Learning - DL 2019 QUESTION PAPER

Deep Learning (University of Mumbai)



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(3 Hours)

[Total Marks: 80]

Paper/Subject Code: 52772/Deep Learning (DLOC-V) B.E. (Comps) (Sem-VIII) (CBCGS) (R-19-20) (CScheme)

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N. B.	2. 3.	Question No. 1 is Compulsory Attempt any three questions, from the remaining five questions. Assume suitable data if necessary and justify the assumption. Figure to the right indicates full marks	
Q1.		Attempt any four of following	[20]
	A	Design NAND gate using Mc-culloch Pitt Model.	
	В	What is activation function? Describe any two activation function.	
	C	Discuss regularization in autoencoders.	
	D	Explain Padding and Stride.	
	E	Describe Sequence Learning Problem.	
Q2.	A	Explain Optimization. Discuss SGD and Adam Optimization algorithms.	[10]
	В	Explain LSTM architecture in detail.	[10]
Q3.	A	Describe different types of autoencoders	[10]
	В	What is significance of Loss function? Describe MSE and Cross Entropy.	[10]
Q4.	A	Discuss RNN learning.	[10]
	В	Explain Convolution and pooling operation with an example.	[10]
Q5.	A	Explain Early stopping, Batch normalization, Data augmentation.	[10]
	В	Elaborate working of GAN.	[10]
Q6.		Attempt any two from the following.	[20]
	A	Elaborate LeNET architecture.	
	В	What is significance of Vanishing and Exploding Gradients.	
	C	Explain contractive autoencoders. Give its applications.	
