	of Questions : 8] SEAT No. :			
PD465	[Total No. of Pages : 2] [6404] 365			
B.E. (Information Technology)				
DEEP LEARNING				
(2019 Pattern) (Semester-VII) (414443)				
(201) (attern) (Semester-VII) (414443)				
Time: 2½ Hours] [Max				
Instructions to the candidates:				
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.			
2)	Assume suitable data if necessary.			
3) 4)	Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks.			
4)	rigures to the right indicate full marks.			
Q1) a)	Explain various types of Recurrent Neural Networks with architecture			
21) u)	diagram and applications. [9]			
b)	Differentiate between RNN and FFNN. [9]			
	OR O			
Q2) a)	Explain Recursive Neural Networks with diagram and applications. [9]			
b)	Explain Long Short-Term Memory Network with suitable architectural			
	diagram and application areas. [9]			
Q3) a)	What are encoders? Explain undercomplete auto encoder. [8]			
b)	What is regularized auto encoder? Where are they used? [9]			
	OR OR			
Q4) a)	Write a short note on-Stochastic autoencoders and decoders. [8]			
b)	Differentiate between denoising auto encoder and contractive auto			
O	encoder. [9]			
Q5) a)	Write a short note on - DenseNet [9]			
b)	What is domain adapation? Explain with suitable example. [9]			
	OR OR			
	P.T.O.			

<i>Q6)</i>	a)	What is transfer learning? Explain with suitable example.	[9]
	b)	What is greedy layer-wise pre-training network?	[9]
Q 7)	a)	Explain how deep learning is used in recommender systems?	[8]
	b)	Explain deep learning-based framework for NLP.	[9]
		OR	
Q8)	a)	Explain the role of CNNs as an image classifier.	[8]
	b)	How deep learning is used in social network analysis?	[9]
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