Total No. of Questions: 4]		o. of Questions : 4] SEAT No. :		
P52	247	7 [Total No. of Page	s:1	
B.E. (Information Technology) (Insem)				
DEEP LEARNING				
(2019 Pattern) (Semester -VII) (414443)				
Time	:1		[Max. Marks : 30	
		ons to the candidates:		
	<i>1</i>)	Answer Q.1 or Q.2, and Q.3 or Q.4.		
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.	•	
	3) 4)	Figures to the right indicate full marks. Assume suitable data, if necessary.		
	4)	Assume sumble data, if necessary.		
01)	,		r#1	
<i>Q1</i>)	a)	Explain following terms related to multi-layer feed-forward networks	.[5]	
		i) Brases		
	1 \	ii) Activation functions	F#3	
	b)	Explain loss function for regression operation.	[5]	
	c)	Define and explain the significance of learning rate of a model?	[5]	
00)	,	OR	r = 1	
Q2)		Explain loss function for classification operation.	[5]	
	b)	Differentiate among RELU, LRELU and ERELU.	[5]	
	c)	What is regularization? Explain the need for regularization.	[5]	
Q3)	a)	Explain the following hyper parameters for the convolutional layer.	[8]	
20)	α)	i) Filter size	6	
		ii) Output depth	2	
		iii) Stride		
		iv) Zero-padding	,50	
	b)	Explain convolution operation in CNN with a suitable example. Take	5*5	
	- /	input data, 3*3 kernel data and calculate convoluted features,	[7]	
		OR		
Q4)	a)	Draw and explain architecture of AlexNet.	[7]	
	b)	Explain any four applications of CNNs with suitable diagrams.	[8]	
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		6.		
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