Total No. of Questions : 4] PC235			estions: 4]		30	SEAT No.:		
				[6361]-1	[6361]-101		[Total No. of Pages : 2	
			B.E. (Information Tech		(Insem)		
			`	DEEPLEAR	30 /			
			(2019	Pattern) (Semeste	er-VII) ((414443)		
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Time	:1 E	<i>lour]</i>				[-	Max. Marks: 30	
Instr	uctio	ns to i	the candida	tes:				
	1)	Ansı	wer Q.1 or	2.2, Q.3 or Q.4.				
	2)	Near	diagrams	nust be drawn wherever	necessary.	. 9		
	3)	Figu	wes to the r	ight indicate full marks	5.			
	<i>4)</i>	Assu	ıme suitable	e data if necessary.				
Q 1)	a)	Def	ine Deep I	earning with suitable	Architect	ure.	[5]	
					7	• •		
	b) \	Wha	at is hyper	parameter? Describe	categorie	es of hyper p	arameters? [5]	
	,		7 1			71 1		
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	c)			etween Single layer fe		d Neural Net		
		Lay	er reed ro	rward Neural Netwo	IK.		[5]	
				(1) 00'				
				OR			Ş	
				6.				
Q2)	a)	Explain following Activation functions. [7] i) ReLU ii) LReLU What is the problem of vanishing gradient? Explain the various solutions to avoid it?						
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				8.		0	3	
		i)	ReLU	V*			\$.	
							×	
		ii)	LReLU		4	00,00,		
						3 (3)		
		iii)	EReLU		(2)	3		
		ш)	LICLO		Cy	20		
						, \		
	b)	Wha	at is the pro	oblem of vanishing gr	adient? E	xplain the va	rious solutions	
		to a	void it?		·8·V		[8]	

<i>Q3</i>)	a)	Explain Alexnet architecture as per its layer.	[5]			
	b)	Explain types of pooling with example.	[5]			
	c)	Enlist and explain layers of CNN.				
		OR				
<i>Q4)</i>	a)	Explain CNN architecture also explain functions of Hidden Layers.	[7]			
	b)	What is convolution operation? Explain circular and discrete convolut				
		operation?	[8]			
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