Total	l No	o. of Questions : 8] SEAT No. :		
PB	252	[Total No. of 1	[Total No. of Pages :2	
	B.l	.E. (Honors) (Artificial Intelligence and Machine Learnin	g)	
		(Computer Engineering)		
		MACHINE LEARNING (2019 Pattern) (Semester-VII) (410301)		
Ti	. 21			
Instr	ucti	tions to the candidates: [Max. Ma	rks: 70	
	1) 2)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8. Figures to the right indicate full marks.		
	3) 4)	Neat diagrams must be drawn wherever necessary. Make suitable assumption whenever necessary.		
<i>Q1</i>)	a)	What is curse of dimensionality? Explain SVM in detail.	[8]	
	b)	Write note on regression and kernels.	[9]	
	U)	9.	ارکا	
		OR		
<i>Q</i> 2)	a)	Explain Random Forest and overfitting in detail.	[8]	
	b)) Write note on adaptive Nearest Neighbour.	[9]	
Q3)	a)	Explain Learning Boolean Function in detail.	[9]	
	b)	Explain two class & multiclass discrimination.	[9]	
		OR OR		
Q4)	a)	What is Learning Time & Recurrent Network? Explain in detail.	[9]	
۷-7	b)			
	U)	2 Explain Bayesian Neural Network in detail with the help of exam	pic. [9]	
<i>Q5</i>)	a)	What is association rule mining? Explain the Aprion algorithm work of example.	ith help [8]	
	b)			
	b)		[9]	
		OR OR		
		8.	P.T.O.	
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Q6)	a)	Explain the following:	[8]
		i) K-medoids	
		ii) Hierarchical clustering	
	b)	Explain the self -organizing maps in detail.	[9]
Q 7)	a)	Explain in detail the discrete markov process in detail.	[9]
	b)	Explain in detail the Hidden Markov model in detail.	[9]
		OR OR	
Q 8)	a)	What are different graphical models? Explain any two in detail.	[9]
	b)	What is belief propagation? Explain Chains, trees, Olytrees, Jur	
	7	Trees.	[9]
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