Total No. of Questions : 06]	90	SEAT No.:
P1450		Total No. of Pages : 2

B.E./Insem/APR-245

		B.E. (Computer Engineering) MACHINE LEARNING
		(2015 Pattern)
Tima	1	Hour] [Max. Marks : 30
		ions to the candidates:
	1)	Attempt questions Q1 or Q2, Q3 or Q4, Q5 or Q6.
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.
	3)	Assume suitable data if necessary.
Q1)	a)	Define Machine learning and state two examples or applications o Machine Learning in our day to day lives. [5]
	b)	What do you mean by supervised and Unsupervised learning? Explain one example of each. [5]
		OR
<i>Q2</i>)	a)	What is principal component Analysis (PCA), when it is used? [5]
	b)	What do you mean by dictionary learning? What are its applications?[5]
Q3)	a)	Justify the statement: Raw data has a significant impact on feature engineering process. [5]
	b)	Explain different mechanisms for managing missing features in a dataset
		OR OR
Q4)	a)	With reference to feature engineering, explain data scaling and normalization tasks? [5]

What are the criteria or methodology for creation of Training and Testing data sets in machine learning methods? [5] b)

Q5) a)	What do you mean by a linear regression? Which applications modeled by linear regression?	are best [5]
b)	Write a short note on: Types of regression	[5]
Q6) Wr	OR ite short notes on (any 2)	[10]
a)	Linearly and non-linearly separable data	
b)	Classification techniques	
c)	ROC curve	
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