Total No. of Questions : 4] P8466		of Questions : 4]	SEAT No. :	
			[Total No. of	Pages: 2
		Oct-22/BE/Insem-42		
B.E. (Computer Engg.)				
MACHINE LEARNING				
		(2019 Pattern) (Semester - VII) ((410242)	
			,	
Time	e : 1	1 Hour]	[Max. Ma	rks: 30
Instr	ructio	ons to the candidates :		
	<i>1</i>)	Answer Q1 or Q2, Q3 or Q4.	200	
	<i>2</i>)	Neat diagrams must be drawn whenever necess	ary.	
	<i>3</i>)	Figures to the right indicate full marks.		
	<i>4</i>)	Assume suitable data, if necessary.	X	
			×	
Q 1)	a)	Compare machine learning vs Artificial Inte	lligence	[5]
Q1)	a)			
	b)	Describe parametric and Non-parametric ma	chine learning m	
				[5]
	c)	Explain various Data formats that conform I	ML elements.	[5]
	,			
		OR		
Q2)	a)	Explain supervised, unsupervised and semi	supervised learni	ng. [7]
~		8.		N.
	b)	Describe various statistical learning approach	nes.	[8]
) ×	20, 20.	
22)		G		
Q3)	a)	Consider a vector $x = (23, 29, 52, 31, 45,$ scaling and find out min-max scaled values		
		scaring and find out min-max scaled values	as well as z-score	[8]
			Op.	
	b)	Explain the process of Principal Component	Analysis (PCA)	
		6.		[7]
		OR		
				D.E. O
		.0."		<i>P.T.O.</i>

How to handle missing values in a dataset that will be used for training **Q4**) a) the ML model? Explain the types of wrapper methods for feature selection. [5] **b**) Explain Local Binary Pattern (LBP) feature extraction technique with **[5]** S. A. S. A.