PRN:		Course Code :	AMT1504

Third Year **B. Tech (AIML)** End Semester Examination
Summer 2023

Machine Learning

Day and Date: Monday, 19/06/2023 Max Marks: **100**
Time : 10.30 am to 1-30 pm Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Review the Supervised Learning Algorithm	08	2	1
	b)	Explain Principle Component Analysis along with example	08	2	1
		OR			
	b)	Explain applications of Machine Learning Algorithm	08	2	1
Q.2		**Attempt the following**			
	a)	Relate classification and regression along with example	08	1	1
	b)	Write a short note on Logistic Regression	08	3	2
		OR			
	b)	Illustrate K Nearest Neighbor Algorithm	08	3	2
Q.3		**Attempt any Two from the following**			
	a)	Recall the concept Support Vector Machine	08	1	2
	b)	Illustrate Iterative Dichotomizer 3 (ID3) algorithm	08	3	3
	c)	Demonstrate Naïve bayes classifier with Example	08	3	3
Q.4		**Attempt any Two from the following**			
	a)	Illustrate K Means algorithm in detail	08	3	3
	b)	Explain clustering and association in detail	08	4	4
	c)	Explain Expected Maximatization algorithm in detail	08	4	2
Q.5		**Attempt any Two of the following**			
	a)	Discuss performance metrics in Machine Learning	09	2	4
	b)	Clarify the role of Learning Curve in Training ,Testing and Validation	09	2	4
	c)	Explain Non Parametric Test in detail	09	5	3
Q.6		**Attempt any Two of the following**			
	a)	Describe the concept of Artificial Neural Network in detail	09	1	2
	b)	Discuss the Deep Learning techniques in detail	09	2	2
	c)	Illustrate Back-propagation in detail	09	3	3

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