

PRAGATI ENGINEERING COLLEGE: SURAMPALEM
(AUTONOMOUS)
III B.Tech II Semester Regular/Supplementary Examinations, April - 2024

MACHINE LEARNING
(Common to CSE and IT)

Time: 3 hours

Max. Marks: 70 M

Answer ONE Question from each Unit
All Questions Carry Equal Marks

Q. No.	Questions	BTL	CO	Marks
UNIT – I				
1.	a) Explain Types of Machine Learning with neat sketch	K2	CO1	7M
	b) Differentiate between Machine learning and Deep learning.	K3	CO1	7M
OR				
2.	a) Explain Training and Test Loss with numerical examples	K1	CO1	7M
	b) Explain Supervised and Unsupervised Learning	K2	CO1	7M
UNIT – II				
3.	a) Discuss Nearest neighbors with an example	K2	CO2	7M
	b) Explain naïve bayes algorithm with example	K4	CO2	7M
OR				
4.	a) Explain about Support Vector Machines	K3	CO2	7M
	b) Explain linear regression with neat sketch	K3	CO2	7 M
UNIT – III				
5.	a) What is voting Classifier? Explain with neat sketch.	K1	CO3	14M
OR				
6.	a) Classify different types of ensemble learning with examples.	K2	CO3	7M
	b) Explain bagging and pasting with examples.	K1	CO3	7M
UNIT – IV				
7.	a) What is K-Means? Write the limitations of K-Means	K1	CO4	7M
	b) Explain elbow method to find K value	K2	CO4	7M
OR				
8.	a) Explain Clustering for Semi-Supervised Learning.	K1	CO4	7M
	b) Explain Clustering for Image Segmentation	K2	CO4	7M
UNIT – V				
9.	a) Explain about ANN, CNN, RNN with neat sketch	K2	CO5	7M
	b) Write a short note on KERAS	K1	CO5	7M
OR				
10.	a) Explain the steps to install tensor flow	K1	CO5	7M
	b) How to implement pre-processing using Tensor Flow	K2	CO5	7M