R20

Max. Marks: 70

Code: 20A05602T

Time: 3 hours

B.Tech III Year II Semester (R20) Regular Examinations August 2023

MACHINE LEARNING

(Common to CSE & CSE (DS))

PART – A (Compulsory Question) Answer the following: $(10 \times 02 = 20 \text{ Marks})$ 1 (a) What is Human Learning? 2M (b) List out Basic types of data in Machine Learning. 2M (c) How to evaluate performance of Model? 2M (d) What is feature in Machine Learning? 2M (e) Define classification. 2M 2M Why Bayesian Methods are Important? (f) (g) What is a Linear Regression? 2M (h) How many ways to improve the accuracy of the Liner Regression model? 2M (i) Write any two applications of unsupervised Learning. 2M What are the association rules in learning? 2M (j) PART - B (Answer all the questions: $05 \times 10 = 50 \text{ Marks}$) 2 What is Machine Learning? Write a applications of Machine Learning. 10M OR 3 Discuss issues in the Machine Learning. 10M Write a note on Model Representation and interpretability. 10M 4 5 What are the basics features of engineering? 10M 10M 6 Prove the Bayes Theorem with the help of suitable example. OR 7 Discuss support vector machines with the help of example. 10M Write an algorithm of simple linear regression. 10M 8 OR 9 Write a note Polynomial Regression Model. 10M What is clustering? Discuss different clustering techniques. 10 10M OR 10M 11 Write a difference between Unsupervised and supervised learning.
