

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - VII Computer Science & Engineering : WINTER : 2024
SUBJECT: MACHINE LEARNING

Day : Tuesday
Date : 03/12/2024

W-25602-2024

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.:

- 1) All questions are **Compulsory**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.

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- Q. 1 a) Write tabular difference between ML vs AI vs Data Science. (10)
OR
b) Define outliers and How the outliers are determined in datasets. Explain with help of example. (10)
- Q. 2 a) What are the criteria or parameters for choosing Machine Learning Techniques? Explain it with help of examples. (10)
OR
b) Write tabular difference Supervised learning vs Semi Supervised vs Unsupervised learning. (10)
- Q. 3 a) How the performance of Regression is assessed. What are predictive error measures? (10)
OR
b) Explain following : (10)
i) Linear Regression
ii) Logistic Regression
- Q. 4 a) Explain following: (10)
i) Rule Based Classification
ii) Back Propagation
OR
b) Explain Decision Tree Classifier in detail with help of example. (10)
- Q. 5 a) What is Clustering? Explain K-mean clustering. (10)
OR
b) Explain the following : (10)
i) Self Organizing Map (SOM)
ii) Anomaly Detection
- Q. 6 a) Explain ensemble methods for increasing accuracy. (10)
OR
b) Explain Bagging and Boosting in detail. (10)

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