

[Total No. of Questions: 4]
Enroll No. 19CSE021096

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Class Roll No. 171.....

I- Mid Semester Exam 2025
Branch: CSE Semester: V
CS - 502 Machine Learning

Time 1:30 Hrs

Max. Marks 20

Note: All questions are compulsory, and there is internal choice.

Ques.1: Define Machine Learning. Explain its types with examples.

(CO1 5 Marks)

OR

Explain the various phases of the Machine Learning lifecycle.

Ques.2: What libraries are used in Machine Learning?

Briefly explain NumPy and Pandas with examples.

(CO1 5 Marks)

OR

Write about some real-world applications of Machine Learning.

Ques 3: Explain Linear Regression with its mathematical representation.

(CO2 5 Marks)

OR

Explain the working of the Decision Tree classification algorithm.

Ques 4: What are regularization techniques? Explain Lasso, Ridge, and ElasticNet .

(CO2 5 Marks)

OR

Explain the working of K- Nearest Neighbors classification algorithm.