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Reg. No.

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VI Semester B.C.A. (Theory) Degree Examination, June - 2025

COMPUTER APPLICATION

Machine Learning

(NEP Scheme)

Time : 2½ Hours

Instructions to Candidates:

Answer All Sections.

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SRN Adarsh College

Chamarajpet,
Bengaluru-560018

Maximum Marks : 60

SECTION - A

I. Answer any **FOUR** questions from the following. Each question carries **Two** marks.

(4×2=8)

1. Define Machine Learning. List different types of Machine Learning.
2. What is Data Preparation?
3. What is labeled and unlabeled data? Give an example.
4. What is Clustering?
5. What are Core points, Border points and Noise points in DBSCAN Algorithm.
6. What is Bayes Theorem.

SECTION - B

II. Answer any **FOUR** questions from the following. Each question carries **Five** marks.

(4×5=20)

7. Write the applications of Machine Learning.
8. Write about K-NN algorithm with python code.
9. Write the difference between Supervised and Unsupervised Learning.
10. What is Data Splitting? Explain common types and methods of Data Splitting.
11. What is Scikit Learn? Explain the features of Scikit learn.
12. Explain the steps involved in data preparation process of ML.

**SECTION - C**

III. Answer any FOUR questions from the following. Each question carries Eight marks.

(4×8=32)

13. Explain different types of Machine Learning technique in detail. (8)
14. a) Define Outliers. What are common methods to Handle Outliers? (4)
b) Define Data Cleaning. What are common methods used in Handling Missing Values? (4)
15. a) Explain life cycle of Machine Learning. (5)
b) Write about logistic Regression. (3)
16. a) Write the applications of DBSCAN algorithm. (3)
b) Explain K-means clustering with python code. (5)
17. a) Write about Decision Tree algorithm. (5)
b) Write about data and coding techniques in Machine Learning. (3)
18. Explain in detail about different types of clustering with neat diagram. (8)

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