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**Presidency University**

**Bengaluru**

**SCHOOL OF ENGINEERING**

**MAKE-UP EXAMINATION JULY 2024**

**Even Semester**: 2023-2024

**Course Code**:CSE319

**Course Name**:Machine Learning

**Program& Sem**:BTech

**Date**:1STJuly2024

**Time**:9:30AM-12:30PM

**Max Marks**:80

**Weightage**:40%

**Instructions:**

1. ***Read the Questions Properly and answer accordingly.***
2. ***Question paper consists of three parts and all questions are compulsory.***
3. ***Scientific and nonprogrammable calculators are permitted.***

**Part A**

**Answer all the Questions. (5Qx2M=10M)**

1. Differentiate classification and regression with suitable examples.

2. Give algorithmic steps of KNN classification technique.

3. Give precision and recall formula in classification

4. List out feature engineering techniques for ML.

5. Differentiate between data and information**.**

**Part B**

**Answer all the Questions. Each question carries 10 marks. (4Qx10M=40M)**

6. Discuss categorical encoding techniques in ML.

7. Briefly explain feature selection techniques in supervised ML

8. Explain cost function and optimization in regression

9. Explain the flowchart of Apriori algorithm

**Part C**

**Answer all the Questions. Each question carries 50 marks. (2Qx50M=30M)**

10. Explain the concept of K-Means algorithm with steps and example

11. Explain the Naïve Bayes’ Algorithm? Also state its advantages and disadvantages.