



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.																			
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Mid - Term Examinations - MARCH 2026

Date: 10 - 03- 2026

Time: 02:00pm - 03:30pm

School: SOCSE	Program: Data Science and Engineering		
Course Code: ADS2107	Course Name: Exploratory Data Analytics		
Semester: IV	Max Marks: 50	Weightage: 25%	

CO - Levels	C01	C02	C03	C04	C05
Marks	26	24			

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	What is Data Leakage.	2 Marks	L1	C01
2	List two differences between univariate and multivariate graphical Exploratory Data Analysis.	2 Marks	L1	C01
3	What are two methods for Data analysis on Ordinal variables.	2 Marks	L1	C01
4	Show the process of Constant Imputation to replace missing values in the given dataset [20, NaN, 22, 24, NaN].	2 Marks	L1	C02
5	Name two techniques for handling missing values.	2 Marks	L1	C02

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Illustrate the machine learning pipeline in detail with a suitable example.	10 Marks	L2	CO1
	b.	Describe the key aspects of EDA in detail.	10 Marks	L2	CO1
Or					
7.	a.	Summarize different types of variables in EDA and give two data analysis techniques that work for any five of them.	10 Marks	L2	CO1
	b.	Explain hypothesis generation with a suitable example.	10 Marks	L2	CO1

8.	a.	Illustrate correlation analysis and find the relationship between X and Y where X= [1,3,5] and Y= [10,30,50].	10 Marks	L2	CO2
	b.	Summarize the standardization technique and transform the data set {10, 20, 30, 40, 50}.	10 Marks	L2	CO2
Or					
9.	a.	Explain any one of the two statistical methods in details and detect outlier(s) in the following exam score Dataset {45,48,50,52,49,10}	10 Marks	L2	CO2
	b.	Contrast between label, one-hot and Binary Encoding and apply each on the categorical variable 'City' with values = ['Delhi', 'Mumbai', 'Kolkata', 'Chennai'] and show the result.	10 Marks	L2	CO2