
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
COLLEGE OF SCIENCE AND HUMANITIES
DEPARTMENT OF COMPUTER APPLICATIONS
MODEL EXAMINATION- OCTOBER 2025
PAD25S01J-DATA VISUALIZATION AND CONCEPTS

CLASS: I MSc ADS **MAX: 100 Marks**

PART – A (Answer any **FIVE** Questions) **5 X 5 =25 Marks**

	BL	CO	PO
1. Why is decluttering important in dashboards?	2	1	1
2. Define Dimension and Measure in Tableau.	1	1	2
3. Write a short note on Hierarchies with examples	1	2	1
4. What is a group in Tableau? Mention two ways to create it.	2	2	2
5. Summarize the core blocks of Power BI and how they interact.	1	3	1
6. Narrate the concept of Mobile Layouts in Power BI.	1	3	1
7. Distinguish between a histogram and a kernel density estimate.	2	4	2
8. List and briefly describe any three libraries in Python for data visualization.	1	5	1

PART – B **5 X 15 =75 Marks**

(Answer **ALL** the Questions)

	BL	CO	PO
9. A. Explain the components of the Tableau Application Suite and their functions.	2	1	1
OR			
B. Discuss various Gestalt principles and their application in data visualization.	2	1	2
10. A. Demonstrate the various types of filters available in Tableau with suitable examples.	3	2	3
OR			
B. Describe how sets help in segmenting data for analysis.	2	2	2
11.A. Illustrate how a star schema helps in simplifying data modeling.	3	3	3
OR			
B. Explain how DAX helps in creating dynamic calculations in Power BI.	3	3	3
12.A. Summarize the key techniques of statistical data visualization in Seaborn with examples.	2	4	3
OR			
B. Discuss regression plots in Seaborn and differentiate between regplot() and lmplot() with an example.	2	4	2
13.A. Explain in detail the key features and functionalities of Matplotlib with suitable examples.	2	5	2
OR			
B. Illustrate the different types of 3D plottings with examples.	3	5	2