Code No: **R20A6702**

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester Supplementary Examinations, April 2025
Data Handling and Visualization
(B.Tech-AIDS & B.Tech-AIML)

Roll No										

Time: 3 hours   **Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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				BCLL	**CO(s)**	**Marks**
			SECTION-I			
1	A		Differentiate between descriptive statistics and inferential statistics.	L3	CO-I	[6M]
	B		Define Sampling? Explain about Sample Statistics and Sampling Distributions.	L2	CO-I	[8M]
			OR			
2	A		Describe the purpose of Visualization and write various principles of Data Visualization.	L2	CO-I	[8M]
	B		State and explain about Vector visualization techniques.	L2	CO-I	[6M]
			SECTION-II			
3	A		Draw the following in Data Visualization: i) Bar Chart ii) Box Plots iii) Dor Plots	L5	CO-II	[7M]
	B		Illustrate about R overview and its Installation.	L4	CO-II	[7M]
			OR			
4	A		Compare and contrast between Bivariate Data Visualization and Multivariate Data Visualization.	L3	CO-II	[7M]
	B		Explain about Descriptive Data analysis using R with example	L4	CO-II	[7M]
			SECTION-III			
5	A		Write the sample code to find the sum and avg of three numbers in R and how do you run the code.	L4	CO-III	[7M]
	B		How do you define the function in R. Write the code for finding of GCD of two numbers in R.	L4	CO-III	[7M]
			OR			
6	A		How R is different with other programming languages. State the examples also.	L4	CO-III	[6M]
	B		State and explain about types of functions in R.	L4	CO-III	[8M]
			SECTION-IV			
7	A		Discuss about the following data manipulation packages: i) dplyr ii) data.table iii)reshape2 iv)tidyr v)Lubridate	L2	CO-IV	[10M]
	B		How do you manipulate the data in R. Write the procedure.	L2	CO-IV	[4M]
			OR			
8	A		Explain about Data Ethics and Visualization Ethics.	L2	CO-IV	[8M]
	B		Write the purpose of Data Visualization Tools and explain about Tableau.	L4	CO-IV	[6M]

SECTION-V

9	*A*	Define Seaborn? Discuss the advantage of using Seaborn libraries over other libraries.	**L2**	**CO-V**	**[6M]**
	B	Explain about Spatial Visualizations and Analysis in Python with Folium.	**L2**	**CO-V**	**[8M]**

OR

10	*A*	Describe about Seaborn functionalities and their usage.	**L4**	**CO-V**	**[7M]**
	B	How do you represent the Multivariate views on complex datasets in Seaborn.	**L2**	**CO-V**	**[7M]**

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