

**Course Name: Exploratory Data Analysis & Visualization, Course Code:201DS302**

**Day and Date: Wednesday, 07.12.2022**

**Time: 10.00 am to 12.00 pm**

**Max. Marks- 50**

**Instructions:**

- Question No. 1&2 is compulsory.
- Figure to the right indicate full marks.
- Give suitable general Instructions
- Any other Course Specific Instructions.
- No questions should repeat from MSE/ISE

BT	CO's	Q. No.		Marks
		<b>Q.1</b>	<b>All Questions are compulsory</b>	<b>20</b>
	<b>CO2</b>	<b>a</b>	Explain the following concepts with an example. Mean Median.	<b>6M</b>
<b>1,2</b>	<b>CO1</b>	<b>b</b>	Write a short note on Polar chart Or Write a short note on Scatter chart	<b>7 M</b>
<b>1,2</b>	<b>CO1</b>	<b>c</b>	Write a short note on Matplotlib.	<b>7 M</b>
		<b>Q.2</b>	<b>All Questions are compulsory</b> (internal sub question permitted for optional questions either a or b)	<b>10</b>
<b>1,2</b>	<b>CO2</b>	<b>a</b>	Explain implementation of Pivot table with example. Or Write a short note on Min and Max function.	<b>4</b>
<b>1,2</b>	<b>CO1</b>	<b>b</b>	What are the steps for Cross-tabulations? Explain in brief. Or Explain different grouping data techniques.	<b>6</b>
		<b>Q.3</b>	<b>All Questions are compulsory</b> (internal sub question permitted for optional questions either a or b)	<b>10</b>
<b>1,2</b>	<b>CO1</b>	<b>a</b>	Write a short note on Simpson Paradox.	<b>3</b>
<b>1,2</b>	<b>CO1</b>	<b>b</b>	Explain Bivariate analysis with an example. <b>or</b> Explain Data Cleaning in Time Series Data.	<b>7</b>
		<b>Q.4</b>	<b>Attempt any two out of three questions</b>	<b>10</b>
<b>1,2</b>	<b>CO1</b>	<b>a</b>	Write a short note on P-hacking. <b>Or</b> Write a short note on Hypothesis testing.	<b>5</b>
<b>1,2</b>	<b>CO1</b>	<b>b</b>	What are the types of regression?	<b>5</b>

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