

[Total No. of Ques.02]

Seat No:

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G H Raison College of Engineering and Management, Pune
(An Autonomous Institution affiliated to Savitribai Phule, Pune University)

Department of First Year B. Tech.
Term II (2024-25)
CAE-I
Foundation of Data Analytics (23UESL1102)

[Time: 01 Hour]

[Max. Marks-20]

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

Q. No.	Sub Question		CO	Marks	BL												
1	a)	Describe the concept of Central Tendency Measures and its role in measuring data dispersion	CO1	[5]	L2												
		OR															
	b)	Difference between Mean, Median, Mode	CO1	[5]	L2												
	c)	A data analyst recorded the daily website traffic (in thousands) over a month for a blog. The data is: [32, 35, 30, 28, 45, 38, 42, 27, 33, 50, 48, 29, 31, 40, 36, 41, 49, 47, 52, 26, 44]. Calculate the Mean Median Mode and Quartile.	CO1	[5]	L3												
		OR															
	d)	Calculate the Variance and Range of the following grouped data. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Class Interval</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>10-20</td> <td>9</td> </tr> <tr> <td>20-30</td> <td>6</td> </tr> <tr> <td>30-40</td> <td>12</td> </tr> <tr> <td>40-50</td> <td>20</td> </tr> <tr> <td>50-60</td> <td>4</td> </tr> </tbody> </table>	Class Interval	Frequency	10-20	9	20-30	6	30-40	12	40-50	20	50-60	4	CO1	[5]	L3
Class Interval	Frequency																
10-20	9																
20-30	6																
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40-50	20																
50-60	4																
2	a)	Illustrate the difference between Table and Database Table? ✓	CO2	[5]	L2												
		OR															
	b)	Describe the procedure for removing Duplicate Values in Excel?	CO2	[5]	L2												
	c)	Explain how to use Scope and Span attributes in the website table.	CO2	[5]	L2												
		OR															
	d)	Explain Data Preparation and why is it essential in the context of data analysis? ✓	CO2	[5]	L2												