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G H Raisoni College of Engineering and Management, Pune

(An Empowered Autonomous Institute affiliated to Savitribai Phule, Pune University, NAAC Accredited "A+" Grade)

First Year B. Tech.

(TERM-I)

CAE II Winter 2025 (2023 Pattern)

Foundation of Data Analytics (23UESL1206)

(Time: - 01 Hour) **(Max. Marks:20)**

Instructions to the students:

i) All questions are compulsory. ii) Neat diagrams must be drawn wherever necessary.
iii) Figures to the right indicate full marks. iv) Use of scientific calculator is allowed
v) Assume suitable data, if necessary.

Q.No.	*Question*	Marks	CO	BL
1				
a	Calculate Linear Regression equation for the following data X: 8, 4, 2, 6, 9, 10 Y: 7, 3, 10, 5, 8, 11 **OR**	5	CO3	3
b	Explain the characteristics of Standard Normal Distribution with neat sketch of probability distribution curve	5	CO3	2
	Find Z scores of following data			
c	Student: A, B, C, D, E; Score(X): 50, 60, 70, 80, 90 **OR**	5	CO3	3
d	Discuss confidence interval and also explain 03 different cases	5	CO3	2
2.				
a	For the following data, Use pivot table count function to find number of male and female students using Gender data . Explain proper procedure and draw final pivot table. Rno: 1, 2, 3, 4; Student Name: Student 1, Student 2, Student 3, Student 4; Gender: Male, Male, Female, Male; Marks: 15, 16, 17, 19 **OR**	5	CO4	3
b	Explain any five pivot table summarizatior functions	5	CO4	2
c	Explain the difference between count numbers and count function with suitable example	5	CO4	2

OR

d	What is the role of pivot tables in data analysis? Discuss sorting and filtering operations in pivot table	5	CO4	2

BL – Bloom's Taxonomy Levels (1- Remember, 2- Understand, 3 – Apply, 4 – Analyze,5 –Evaluate 6 - Create