

Your Roll No.....

M. TECH. (CSE/DS) Backlog Examination, 2024

Paper Code: MTCSE PE 121/MTDS PE111

Data Science

Maximum Marks: 60

(Write your roll number at the top immediately on receipt of question paper)

SECTION A

Attempt ALL questions. Each carries equal marks.

(4 x 5= 20 marks)

1	Is data science and Data analytics related or are they different from each other. Explain.	CO1, BL 2
2	Explain the various types of data storage techniques.	CO3, BL3
3	Explain the following terms related to statistical measurement: Kurtosis, Bell shaped curve, and skewness (Left and Right)	CO2, BL 3
4	Explain Data Science Life Cycle with a neat diagram.	CO1, BL 2

SECTION B

Attempt FOUR questions. Each carries equal marks.

(4 x 10=40 marks)

1	Raisins in a box weigh the following in kgs: 4,2,5,4,3,1,8,6. Calculate the mean, median and mode for this data. Also give differences amongst the three measures on basis of two features.	CO4, BL 4
2	Draw the DIKW diagram and explain each in detail.	CO1, BL 3
3	Explain any four retinal variables with examples.	CO5, BL3
4	What issues are associated with Raw data? Discuss	CO2, BL 3
5	Explain the Data Visualisation technique in detail.	CO5, BL 3 CO4, BL 4
6	Explain the following KNN Linear Regression	CO 2, BL 2