

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)

CLASS: BBA
BRANCH: BBA

SEMESTER : V
SESSION : MO/2025

SUBJECT: MN437 DATA SCIENCE USING R

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a)	Explain the steps to install R in Windows OS	[2] 1	1
Q.1(b)	List the basic data types available in R.	[3] 1	1
Q.2(a)	What are control structures? Why are they important in programming?	[2] 2	1
Q.2(b)	List any five built-in mathematical functions in R.	[3] 2	1
Q.3(a)	Write the R commands for calculating mean, median and mode of a dataset.	[2] 2	3
Q.3(b)	Calculate the mean, median and mode of the following dataset : 66 66 79 28 63 48 59 94 19	21 62 [3] 2	4
Q.4(a)	Describe Kurtosis with appropriate diagram.	[2] 2	3
Q.4(b)	What is skewness? Explain different types of skewness.	[3] 2	3
Q.5(a)	How will you draw a pie chart in R. Describe with example.	[2] 3	4
Q.5(b)	Draw a box plot with the following dataset: {9,8, 10, 12,15, 14, 17,22,24, 23, 42}	[3] 3	5

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