

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

CLASS: MBA
BRANCH: MBA

SEMESTER : IV
SESSION : SP/2023

SUBJECT: MT551 DATA SCIENCE USING R

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q.1(a)	Discuss why R is important in data analytics? Also write the names and usage of some useful packages of R.	[5]	CO1	BL2
Q.1(b)	State how basic computation in R is done with the help of examples.	[5]	CO1	BL2
Q.2(a)	Explain various data types available in R.	[5]	CO2	BL3
Q.2(b)	Explain with proper example, one of the following control structure: for loop or while loop	[5]	CO2	BL3
Q.3(a)	State the concept of missing values. How do you deal with them in R.	[5]	CO3	BL1
Q.3(b)	Differentiate between categorical and continuous variables with the help of proper examples.	[5]	CO3	BL4
Q.4(a)	Illustrate any two data manipulation functions in R.	[5]	CO4	BL3
Q.4(b)	Evaluate and explain the outcome of following R commands. library(dplyr) stats <- data.frame(player=c('A', 'B', 'C', 'D'), runs=c(100, 200, 408, 19), wickets=c(17, 20, NA, 5)) filter(stats, runs>100)	[5]	CO4	BL4
Q.5(a)	Compose a linear regression equation with your own data set.	[5]	CO5	BL5
Q.5(b)	Construct a decision tree with your own data set.	[5]	CO5	BL5

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