R20 Regulation *Subject code:3E7FA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VII Semester Supplementary Examinations, November 2025

INTRODUCTION TO DATA ANALYTICS

(IT)

Maximum Marks: 70 Date: 03.12.2025 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)		Marks	CO	BTL
1	List the Data types in R.	2M	1	L1
2	What are structured array? Give examples	2M	1	L1
3	Discuss about probability function.	2M	2	L1
4	List the types of variables available in R.	2M	2	L1
5	Define NO SQL.	2M	3	L1
6	How to Read CSV file in R programing.	2M	3	L1
7	Define Regression Modeling	2M	4	L1
8	How correlation is used for data analysis?	2M	4	L1
9	What is meant my Manufacturing?	2M	5	L1
10	Name different business problems related to various businesses.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain R data frames with example.	10M	1	L2
	OR			
12	Explain briefly about the concept of Reading Datasets, types of Datasets with their syntax and example.	10M	1	L2
13	What is summarization of data? Explain different types of summarization in R.	10M	2	L2
	OR			
14	Explain about Central Limit Theorem in detail with example in R.	10M	2	L2
15	Differentiate between data integrity and data manipulator.	10M	3	L2
	OR			
16	Write the NO SQL database classification based on data model with examples.	10M	3	L2

17	Explain the concept of Basic Regression Analysis with a suitable example.	10M	4	L2
	OR			
18	Explain about model of multi regression system.	10M	4	L2
19	Explain about Automated mechanism design.	10M	5	L2
	OR			
20	Compare and contrast the manufacturing and production activities data analysis with respect to technology	10M	5	L2