



R20 Regulation **Subject code: 3E8HA**
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VIII Semester Regular Examinations, April 2024

DATA SCIENCE

Computer Science and Engineering (Data Science)
(Professional Elective)

Maximum Marks: 70

Date: 22.04.2024 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 which carries 10M.
 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)		CO	Bloom Tx
1	What is Data Science?	1	L1
2	What is Statistical modeling?	1	L1
3	Write about linear regression?	2	L1
4	Define Data visualization.	2	L1
5	What is Classification?	3	L1
6	List some selection algorithm?	3	L1
7	What is Network Model?	4	L1
8	Define Deep Learning.	4	L1
9	Define Big Data.	5	L1
10	Write about Map Reduce?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)

11	A. Write a brief description about Data Science and Big Data? [5] B. Explain about War Stories. [5]	1	L2 L2
OR			
12	A. Explain in detail about properties of Data. [5] B. Describe about classification and regression. [5]	1	L2 L3
13	Explain in detail about BMI with an example. [10]	2	L3
OR			
14	A. Describe about normalisation process ? [5] B. Explain about data visualization? [5]	2	L3 L2
15	A. Explain about Base Line Models . [5] B. Explain about Evaluating Model. [5]	3	L2 L2
OR			
16	A. Explain about Linear regression with an example? [5]	3	L2

	B. Discuss about classification and logistic regression. [5]	✓	L2
17	A. Describe about Page ranking and clustering. [5] B. Discuss about SVM. [5]	4	L4 L3
	OR		
18	A. Explain about distance network model? [5] B. Explain about Degrees of supervision in deep learning? [5]	4	L2 L2
19	Explain Map reduce programming with an example. [10]	5	L2
	OR		
20	Write about Filtering and Sampling? [5+5]	5	L2