



R20 Regulation

Subject code: 3E6EG

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

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

**B.Tech VI Semester Regular Examinations, June/July 2023**

**INTRODUCTION TO ANALYTICS**

(CSE)

**Maximum Marks: 70**

**Date:03.07.2023 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)

- 1 What is Big Data?
- 2 Define Small Data.
- 3 Write about Filters.
- 4 Write a Short note on Outliers.
- 5 List out Shrinkage Methods.
- 6 What are Distance Measures for Non-conventional Attributes?
- 7 Define Back propagation.
- 8 Write a short note on SVM.
- 9 List out Knowledge-based Techniques.
- 10 Discuss Structural Properties of Networks.

**Part-B**

Answer All the following questions.

(10MX 5=50Marks)

- 11 Explain in brief about:  
A. Descriptive Univariate Analysis. (5M)      B. Univariate Statistics. (5M)  
OR
- 12 Write in brief about Common Univariate Probability Distributions. (10M)
- 13 Distinguish Multivariate Frequencies, Multivariate Data Visualization. (10M)  
OR
- 14 Explain in detail about Data Transformation. (10M)
- 15 Write about:  
A. The Bias-variance Trade-off. (5M)      B. Shrinkage Methods. (5M)  
OR
- 16 Discuss Predictive Performance Estimation – Generalization. (10M)
- 17 Explain in brief Deep Networks and Deep Learning Algorithms. (10M)  
OR
- 18 Distinguish between Multi-label Classification, Hierarchical Classification. (10M)
- 19 Write about: A. Feature Extraction. (5M)      B. Tokenization (5M)  
OR
- 20 Discuss in brief Content-based Techniques, Collaborative Filtering Techniques. (10M)