R20 Regulation *Subject code:3E7EG*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, October 2026

PREDICTIVE ANALYTICS

(CSE)

Maximum Marks: 70 Date: 30.10.2026 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	How to impute missing data in R?	2M	1	L1
2	List out various steps and techniques in analytics.	2M	1	L1
3	Write the logistic regression and its components.	2M	2	L1
4	Why do we use data visualization?	2M	2	L1
5	What is meant by over fitting.	2M	3	L1
6	Briefly discuss about training and development.	2M	3	L1
7	Define Arima model	2M	4	L1
8	What is meant by prediction	2M	4	L1
9	What is meant by Technical Report	2M	5	L1
10	Why is peer review important in the document creation?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain in detail about types of data variables and various data modeling techniques.	10M	1	L2
	OR			
12	Explain in detail about different regression concepts and least square estimation method.	10M	1	L2
13	Explain about regression, classification and decision trees.	10M	2	L2
	OR			
14	a) Explain classification and give suitable example. b) Write about multiple decision trees	5M 5M	2	L2
15	What do you mean by objective segmentation? Explain.	10M	3	L2
	OR			
16	Briefly explain the training and development of knowledge, skills and competence.	10M	3	L2
17	Write a short note on time series and STL approach.	10M	4	L2
	OR			

18	Explain the extraction of features from the generated model as height, average, energy etc., and analyze for prediction.	10M	4	L2
19	Explain in detail about intellectual property and copy rights with suitable examples.	10M	5	L2
	OR			
20	Explain in detail about intellectual property and copy rights with suitable examples.	10M	5	L2