R22 Regulation *Subject code: 4E8HA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VIII Semester Regular Examinations, May 2026

PREDICTIVE ANALYTICS

(CSE (DS))

Maximum Marks: 60 Date:12.05.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 10 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 (10X1M=10 Marks)		Marks	CO	BTL
1.a)	List the applications of predictive analytics.	1M	1	L1
b)	What is meant by business understanding?	1M	1	L1
c)	State the prediction effect.	1M	2	L1
d)	Define ethical responsibility in analytics.	1M	2	L1
e)	What is logistic regression?	1M	3	L1
f)	Define percent correct classification.	1M	3	L1
g)	What is boosting?	1M	4	L1
h)	What is random forest?	1M	4	L1
i)	Define survey analysis.	1M	5	L1
j)	Define question answering system.	1M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
2	a) Discuss objectives of predictive modeling. b) Describe the steps involved in setting up a predictive analytics problem.	5M 5M	1	L2 L3
	OR			
3	a) Evaluate the overview of predictive analytics. b) Illustrate measures of success for predictive models.	5M 5M	1	L2 L3
4	Analyze data effect in predictive analytics.	10M	2	L3
	OR			
5	Describe the process of deploying predictive models.	10M	2	L3
6	a) Brief the decision tree algorithm with example. b) Discuss regression models and their uses.	5M 5M	3	L2 L3
	OR			
7	a) Brief the KNN algorithm in detail. b) Summarize rank-ordered approach to model assessment.	5M 5M	3	L2 L3

. 8	a) Discover ensemble learning and its importance. b) Explain stochastic gradient boosting.	5M 5M	4	L2 L3
	OR			
9	a) Describe bagging technique with example. b) Justify how ensembles improve predictive performance.	5M 5M	4	L2 L3
10	Discuss a case study of text mining with their challenges in predictive analytics.	10M	5	L3
	OR			
11	Explain persuasion by numbers with examples.	10M	5	L3