

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Course Code & Name : 23ADO201 – DATA SCIENCE FUNDAMENTALS**

**Course Faculty : Mr.K.Karthikeyan/AP/CSE**

### Question Bank

#### UNIT-V: PREDICTIVE ANALYTICS

#### Part A- Two Mark Questions

PART A					
S.No	Questions	M	CO	BL	Industry/Company Name
1	Define predictive analytics.	2	CO-5	L-1	Google
2	What is the Linear Least Squares method?	2	CO-5	L-2	Microsoft
3	How is goodness of fit measured?	2	CO-5	L-1	Amazon
4	What is weighted resampling?	2	CO-5	L-1	IBM
5	Differentiate between linear and logistic regression.	2	CO-5	L-2	TCS
6	What is overfitting in predictive modeling?	2	CO-5	L-1	Infosys
7	List two evaluation metrics for regression models.	2	CO-5	L-1	Wipro
8	What is cross-validation?	2	CO-5	L-2	Accenture
9	How do you test a linear model?	2	CO-5	L-2	Deloitte
10	Give an example where predictive analytics is used in business.	2	CO-5	L-2	Cognizant

**Part B 16 Mark Questions**

PART B					
S.No	Questions	M	CO	BL	Industry/Company Name
1	Explain the Linear Least Squares method in detail with a numerical example.	16	CO-5	L-4	Microsoft
2	Discuss the steps involved in building a predictive model, from data preparation to evaluation.	16	CO-5	L-5	Google
3	Evaluate the goodness of fit for a regression model and interpret $R^2$ and adjusted $R^2$ .	16	CO-5	L-5	IBM
4	Design a predictive model for customer churn prediction and explain the choice of algorithm and validation techniques.	16	CO-5	L-6	Amazon