

BENGALURU School of Computer Science and Engineering Mid - Term Examinations - November 2024

Semester: V Course Code: CSE3036 Course Name: Predictive Analytics Program: B.Tech (IST) Date: 4-11-2024 Time: 09.30am to 11.00am Max Marks: 50 Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.				5Qx2M=10M					
1	List any two importance aspects of analytics.		2 Marks	L1	CO1				
2	State two key applications of analytics in business.			L2	C01				
3	What are the basic challenges in implementing analytics?			L1	CO2				
4	Define predictive analytics.			L1	CO1				
5	Show	2 Marks	L2	CO2					
		Part B							
Answer ALL Questions. Each question carries 10 marks.				4QX10M=40M					
6	a.	Explain the importance of analytics in modern business.	3 Marks	L1	CO1				
	b.	Discuss the challenges faced in implementing analytics solutions.	2 Marks	L2	CO2				
	C.	Analyze a case study of predictive analytics implementation in retail sector.	5 Marks	L2	CO3				
Or									
7	a.	Describe the evolution of analytics in business.	3 Marks	L2	CO2				
	b.	State two applications of marketing analytics.	2 Marks	L1	CO1				

c. Elaborate on the decision-making process using analytics with **5 Marks L2 CO3** examples.

8	a.	List two benefits of predictive modeling.	2 Marks	L1	CO1		
	b.	Describe the process of analytical decision making.	3 Marks	L2	CO2		
	C.	Discuss the evolution, importance, and future of analytics in business.	5 Marks	L2	CO3		
or							
9	a.	What is the role of data quality in analytics?	2 Marks	L1	CO1		
	b.	Discuss the challenges in data-driven decision making.	3 Marks	L2	CO2		
	C.	Elaborate on the implementation of analytics in supply chain management.	5 Marks	L2	CO2		
10	a.	Demonstrate basic collaborative filtering.	2 Marks	L2	CO 2		
	b.	Implement cluster analysis for market segmentation.	3 Marks	L2	CO1		
	C.	Discuss the potential business benefits of using predictive analytics for demand forecasting in the retail industry.	5 Marks	L3	CO2		
or							
11	a.	How to implement k-means clustering?	2 Marks	L1	CO1		
	b.	Demonstrate collaborative filtering in product recommendations.	3 Marks	L2	CO2		
	C.	Apply and evaluate propensity models in customer lifetime value prediction.	5 Marks	L3	CO3		
12	a.	How to implement cluster analysis?	2 Marks	L1	C01		
	b.	Apply propensity models in customer churn prediction.	3 Marks	L2	CO2		
	C.	Develop and assess collaborative filtering system for e- commerce.	5 Marks	L2	CO2		
or							
13	a.	Demonstrate clustering techniques in customer segmentation.	3 Marks	L1	CO2		
	b.	How to use association rules?	2 Marks	L2	C01		
	C.	Implement customer acquisition strategy using predictive modeling.	5 Marks	L2	CO3		