The state of the s		Harcourt Butler Technical University Kanpur					MID SEM II	
Branch		MCA Program		Program			MCA	
Course Name		Machine Learning S		Semester	Semester		IV	
Course Code		ECA 554		Year		2023-24		
Time: 1.00Hr		Answer All Questions Maxim		Maximum	n Marks 1		15	
1	lge Level	K1: Remembering	K3: Applying		K5: Ev	K5: Evaluating		
(KL)		K2: Understanding	K4: Analyzing		K6: Cr	K6: Creating		
Q. No		Questions			Marks	COs	KL	
1	Discuss how to calculate the distance between the test data and training data for KNN. Why, KNN is termed as lazy learning algorithm?				3	CO3	K2	
2	What are the advantages and disadvantages of decision tree based model for machine learning. Illustrate the algorithm for <i>best split</i> based on <i>information gain</i> criteria with the help of an example.				3	CO4	К3	
3	Discuss few practical applications where Clustering is suitable. Explain the K-means clustering algorithm.				3	CO4	K4	
4	Write short notes on any two: (i) Bagging and Boosting (ii) Dimensionality Reduction (iii) PCA				6	CO5	K2	