				CHNOLOGY, MI ER EXAMINATIO	· · · · · · · · · · · · · · · · · · ·	
CLASS : BRANCH :		MTech/Pre- Ph.D.			SEMESTER :	II SP/2022
		CS/IT/IS/Pre- Ph.D.			SESSION:	
			IT516 – DATA I	MINING AND DA	TA ANALYSIS	
TIME	:	2 HOURS			FULL MARKS	: 50
Note: I		lata should be assu				
1. (a)	Differentiate between Data Characterization and Data Discrimination.					5 marks
1. (b)	Use the below method to normalize the following group of data: 1000, 2000, 3000, 5000, 9000, 10000. • Min-max normalization by setting min=0 and max=1					5 marks
2. (a)	Discuss bitmap indexing method with suitable example.					5 marks
2. (b)	What is 'Concept Hierarchy'?					5 marks
3. (a)	Mention the limitations of Apriori Algorithm.					5 marks
3. (b)		er the following tran	Transaction I T1 T2 T3 T4 T5 T6 T7 T8 T9 T10	ABBCDACDEADEABCABCDBAABCABDBCE	s:	5 marks
4 ()						
$\frac{4.(a)}{4.(b)}$	What is 'postpruning' approach for Tree pruning. Explain.					5 marks
4.(b)	Write a basic Sequential Covering Algorithm for rule induction while performing rule based classification.					5 marks
5.(a)	Write an Algorithm for K-Means Clustering.					5 marks
5.(b)	Discuss 'elbow' method to find the 'right' number of clusters in a dataset.					5 marks

02/05/2022 E