

3 a.	What is Data Mining? With a neat sketch, explain the process of Knowledge discovery	10
	in database.	10
b.	What is an attribute? Explain different types of attributes with example.	10

4 a. What is sampling? List and explain different types of sampling techniques with example. 10

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b. Explain the motivation challenges for development of Data Mining.

UNIT - III

5 a.	Discuss the Apriori algorithm for frequent itemset generation.	10
b.	Explain briefly the alternative methods for generating frequent itemsets.	10
6 a.	Explain different steps involved in subsequent extension of FP-tree.	10
b.	Explain how association patterns are evaluated?	10

UNIT - IV

7 a.	List the different characteristics of decision tree induction.	10
b.	Explain rule-based classification technique and list the characteristics.	10
8 a.	State Hunts Algorithm. Explain how Hunts algorithm will work for inducing decision tree	10
	with a need diagram?	10

b. Write an algorithm for K-nearest neighbor classification. Elaborate on characteristics of 10 nearest-neighbor classifier.

UNIT - V

9 a.	List and explain the desired features of cluster analysis.	10
b.	Explain the steps involved in agglomerative method of clustering.	10
10 a.	Explain the different types of cluster analysis methods.	10
b.	Discuss the following clustering algorithm:	10
	i) K-means ii) DBSCAN	10

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