11/12/17

3 Hours)

	i. ii. iii.	Q. 1. is Compulsory. Attempt any three from the remaining. Assume suitable data.	5)
Q. 1	(a)	Explain Regression based classifier	2/
	(b)	What is Data Preprocessing? Explain the different methods for the Data Cleansing	(5)
	(c)	What is hierarchical clustering? Explain any two techniques for finding distance between the clusters in hierarchical clustering.	(5)
	(d)	Define "Data mining", Enumerate five example applications that can benefit by using Data Mining	(5)
Q. 2	(a)	Explain clearly working of DBSCAN using appropriate diagrams	(10)
	(b)	Explain Data mining as a step in KDD. Give the architecture of typical Data Mining system	(10)
Q. 3	(a)	Explain BIRCH algorithm with example	(10)
	(b)	Explain different visualization techniques that can be used in data mining	(10)
Q. 4	(a)	Explain Multilevel association rules with suitable examples	(10)
	(b)	Define classification, issues of classification and explain ID3 classification with example	(10)
Q. 5	(a)	Explain Bagging and Boosting of classifiers	(10)
	(b)	Explain Box plot summary with example	(10)
2.6	(a)	Explain Business Intelligence Issues	(10)
	(b)	What is clustering? Explain k-means clustering algorithm. Suppose the data for clustering - {2, 4, 10, 12, 3, 20, 11, 25} Consider k=2, cluster the given data using above algorithm.	(10)