Paper / Subject Code: 37304 / DATA MINING AND BUSINESS INTELLINGENCE

T.E.(INFORMATION TECHNOLOGY)(Sem VI) (CBSGS) / DATA MINING AND BUSINESS INTELLINGENCE

Q.P. Code: 24209

(3 Hours) [Total Marks 80] i. Q. 1. is Compulsory. ii. Attempt any three from the remaining. iii. Assume suitable data. Define "Business Intelligence" and "decision support system" with e.g.? 05 **1(a) 1(b)** Define OUTLIERS? What are the different types that occur in a database? 05 Clearly explain data preprocessing phase in data mining? **1(c)** 05 **1(d)** Define data mining? Write five e.g. for the same? 05 Explain multidimensional and multilevel association rule with e.g.? Q2 (a) **10 Q2** (b) Explain DBSCAN algorithm using appropriate diagrams? 10 Q3 (a) Explain APRIORI algorithm to identify the frequent set than extract strong **10** association rule from these sets? MIN support = 30% min. confidence = 75% **ITEMS** TID

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Q4(a)	Use Hierarchical clustering algorithm to cluster the following 8 points into 3 clusters	10
	A1=(2,10), A2= (2,5), A3=(8,4), A4=(5,8),	30,01
	A5= (7, 5), A6= (6, 4), A7= (1, 2), A8= (4, 9).	
Q4(b)	Explain the designer of BI system for credit card fraud detection?	10
Q5(a)	Explain birch algorithm?	10
Q5(b)	Define Decision support system and how it is related with data mining? Explain in detail with suitable e.g.?	-10
Q6(a)	Explain business intelligence issues?	10
Q6(b)	Short note on Data mining steps in KDD? Explain its architecture	10