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MCIT/MCSE/MCTA-301 M	. 5.	(a)	How many types of clustering methods are there? Explain any one partitioning-clustering algorithm. 10
M. Tech. (Software System) (Third Semester) EXAMINATION, Feb., 2010		(b)	Explain DBSCAN, density based clustering algorithm to discover cluster with arbitrary shape. 10
DATA MINING (Elective—IV) Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 40	•		Why current search engine are not sufficient for web resource discovery? Differentiate web content mining, web structure and web usage mining. 10 What kind of analysis we can perform on web log tiles?
Note: Attempt any five questions. All questions carry equal marks.	7. ((a)	Explain with suitable examples. 10 What is spatial data mining? Can we create data cube
(a) Explain all the seven steps of KDD. (b) Explain all major issues in data mining.			on spatial data? If so then explain spatial data cube with suitable example.
 2. (a) How is a data warehouse different from a database? How are they similar? (b) Explain OLAP operations in multidimensional data model. Differentiate ROLAP, MOLAP and HOLAP, 10 		(b)	Explain the following with suitable example: 10 (i) Spatial association analysis (ii) Spatial clustering
3. (a) How we can mine frequent itemsets without candidate generations?			e short notes on any four of the following: 20 Image and Video mining 20
(b) Why a priori algorithm is inefficient? Explain its any two variations that increase the efficiency. 10	(н)	Text mining RGPVONLINE.COM
(a) Briefly outline the major steps of decision tree			Temporal mining Multilevel association rule mining

(v)

Concept hierarchy

(b) Why is Naive Bayesian classification called "Naive"?