- 11. (a) What is web mining? What challenges needs to be pose for discovery of effective resource and knowledge from the web?
 - (b) Explain term Frequency / Inverse Document Frequency (TF/IDF) scheme for indexing text documents.

OR

- 12. (a) Explain Apriory based approach for mining frequent subgraphs.
 - (b) What is text mining? Explain Precision and Recall measures for text retrieval. 6

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Third Semester M. Sc. (Part – II) Examination (CBCS Pattern)

COMPUTER SCIENCE

3 MCS 1: Data Mining and Data Warehousing P. Pages: 4

Time: Three Hours]

[Max. Marks: 80

- Note: (1) Assume suitable data wherever necessary.
 - (2) Illustrate your answer with the help of neat sketches.
- 1. (a) Explain the concept of data integration and data transformation.
 - (b) Explain data smoothing techniques for removing noisy data.

OR

- 2. (a) What is data mining? State the importance of data mining.
 - (b) Describe attribute subset selection technique of data reduction with suitable example. 8
- 3. (a) Describe multidimensional data model. 8

AQ-1038

P.T.O.

	(b)	Explain the usage of data warehousing for	,			` -	Describe measures for computing classifiers
		information processing.	0				accuracy
		OR				-	OR
4.	(a)	•	8		8.	(a)	Explain the following:—
							(i) Linear Regression.
	(b)	Explain multiway array aggregation for fu cube computation.	6				(ii) Non-linear Regration. 6
							Describe measures for computing predicator errors.
5.	(a)	Describe "Market Basket Analysis" w.r. frequent itemset mining.	t. 6				:
	(b)	Describe the method of multilabel association rules mining with example.	n. 7	1	9.	` "	What is Cluster Analysis? What types of data usually occur in cluster analysis? 6
	٠.	OR					Explain the need of data reduction and transformation techniques in high-dimensional
6.	(a)	Explain support – confidence framework for mining association rules.	or 6		•		time-series data. 7
	(b)	Describe the need of correlation analysis i	in				OR
		support of association rules mining.	7		10.	(a)	Explain the purpose of following:
7.	(a)	Explain the following:					(i) Partitioning methods.
		(i) Network Topology.					(ii) Hierarchical methods.
	•	(ii) Backpropagation.	6	1		(b)	Explain K-Medoids with example. 7
ΑQ	-103	8 2	· .	!	. AQ-	1038	3 P.T.O.