

## GBCS SCHEME

18CS641

## Sixth Semester B.E. Degree Examination, July/August 2022 Data Mining and Data Warehousing

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.			
Module-1			
1	a.	With a neat diagram, explain a Three Tier Data Warehouse.	(10 Marks)
	b.	List and explain Data Warehouse Models.	(10 Marks)
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3	_	OR	
2	a.	With suitable example, explain Star schema, Snow Flake schema, Fact C schema for Multidimensional database.	
	b.	Explain OLAP Operations with example.	(10 Marks) (10 Marks)
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		Module-2	
3	a.	Explain OLAP Data indexing for Bitmap Index and Join index.	(10 Marks)
	b.	Differentiate ROLAP, MOLAP and HOLAP Servers.	(10 Marks)
		OR	
4	a.	Explain Data - preprocessing steps and the challenges faced in Data Mining.	(10 Marks)
	b.	Briefly explain Similarity and Dissimilarity between the objects. Find the SMC at	
		coefficient of Two binary vectors.	
		X = (1, 0, 0, 0, 0, 0, 0, 0, 0, 0) $Y = (0, 0, 0, 0, 0, 0, 0, 0, 0, 1).$	(10 Marks)
Module-3			
5	a.	Explain the rule generation in Apriori Algorithm with example.	(10 Marks)
	b.	Explain the Alternative method for generating frequent itemset.	(10 Marks)
6	•	Briefly explain FP growth algorithm.	(10 NTI)
U	a. b.	Explain the objective measure of Interestingness for evaluating association pattern	(10 Marks)
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7	0	Module-4  With a post block diagram explain general expresses to solve elegification pro	hlama with
/	a. ,	With a neat block diagram, explain general approach to solve classification proapplication.	(10 Marks)
	b	Explain with example, how to build decision tree using Hunt's algorithm.	(10 Marks)
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8	a.	Explain different method for comparing classifier.	(10 Marks)
	b.	Explain the rule based classifier with example.	(10 Marks)
Module-5			
9	a.	Describe K – means clustering algorithm. What are its limitations?	(10 Marks)
	b.	With example, explain Agglomerative Hierarchical clustering with example.	(10 Marks)
OR			
10	a.	With Time and Space complexity, explain DBSCAN Clustering Algorithm.	(10 Marks)
	b.	Explain the BRICH Scalable Algorithm.	(10 Marks)
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