18CS641

(10 Marks)

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GBCS SCHEME

Sixth Semester B.E. Degree Examination, July/August 2022

Data Mining and Data Warehousing

Time: 3 hrs. Max Marks: 100

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Note: Answer any FIVE full questions, choosing ONE full question from each module.				
Module-1				
1	a.	With a neat diagram, explain a Three Trier Data Warehouse.	(10 Marks)	
	b.	List and explain Data Warehouse Models.	(10 Marks)	
			(201:241)	
OR				
2	a.	With suitable example, explain Star schema, Snow Flake schema	•	
	1.	schema for Multidimensional database.	(10 Marks)	
	b.	Explain OLAP Operations with example.	(10 Marks)	
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.		inin ~ (10.1% 1)	
-9	b.	Briefly explain Similarity and Dissimilarity between the objects. Find the		
	o.	coefficient of Two binary vectors.	ile Sivic and Jacquard	
		X = (1, 0, 0, 0, 0, 0, 0, 0, 0, 0) $Y = (0, 0, 0, 0, 0, 0, 0, 0, 0, 1)$	(10 Marks)	
		(3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3	(2011287115)	
		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)	
		OR		
6	a.	Briefly explain FP growth algorithm.	(10 Marks)	
	b.	Explain the objective measure of Interestingness for evaluating associat		
			(10 Marks)	
		Module-4		
7	a.	With a neat block diagram, explain general approach to solve classifi	cation problems with	
•	griss,	application.	(10 Marks)	
	b .	Explain with example, how to build decision tree using Hunt's algorithm		
		OR		
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		
OR				

Explain the BRICH Scalable Algorithm.

With Time and Space complexity, explain DBSCAN Clustering Algorithm.