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		Sixth Semester B.E. Degree Examination, June/July 2024	
		Data Mining and Data Warehousing	
Tim	ne: 3	hrs. Max. Ma	arks: 100
	No	te: Answer any FIVE full questions, choosing ONE full question from each me	odule.
	2.13	Module-1	
1	a.	Differentiate Operational Database system and Data ware house.	(08 Marks
<b>. 1</b>	a. b.	List Data Warehouse characteristics.	(04 Marks
	с.	With a neat diagram, explain a Three - Tier Architecture of Data Warehouse.	(08 Mark:
		OR	
2	a.	Explain the schemas of Multidimensional Data models.	(08 Mark
2	b.	Explain OLAP Operations	(06 Mark
	с.	Differentiate OLAP and OLTP.	(06 Mark
		Module-2	
2	0	What is Data Mining? Explain KDD process in Data Mining.	(10 Mark
3	a. b.	What is Data Winnig? Explain RDD precess in Land What kinds of pattern can be mined? Explain in brief.	(10 Mark
	υ.		
		OR OR	(10 Mark
4	a.	Explain the Data Preprocessing techniques in brief. Explain the Dimensionality Reduction with its significance.	(10 Mark
	b.	Explain the Dimensionality Reduction with its significance.	
		Module-3	(10 Mar
5	a.	Explain the Apriori Algorithm with an example.	(10 Marl (10 Marl
	b.	Explain the Frequent Pattern growth algorithm and mention its advantages.	(10 11-11
		OR	
6	a.	Explain Alternative methods for generating frequency item sets in brief.	(10 Mar)
	b.	Explain Evaluation of Association Pattern in brief.	(10 Mar
		Module-4	
7	a.	How does Decision tree induction algorithm works? Explain with an example.	(10 Mar)
1	u. b.	Describe the methods for comparing classifiers.	(10 Mar
	Gu	OR	
0	4	Explain Direct methods and Indirect methods of Rule Extraction in brief.	(10 Mar
8	a. b.	Explain Direct methods and manoet methods of rand explain Sector	(10 Mar
	0.		
		Module-5	(10 Mar
9	a.	Describe K means Clustering algorithm. What are its limitations?	(10 Mar
	b.	Explain DBSCAN algorithm with an example.	
		OR	
10	a.	Explain the following in brief :	(10 Mar
		i) Density Based Clustering ii) Graph Based Clustering.	(10 Mar
	b.	Explain the BRICH Scalable Algorithm	
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		L. A.	
		Approximation and a second	
	C.		

-7 Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.