## th Semester B.E. Degree Examination, June/July 2024

Max. Marks: 100

BANGALORE: Answer any FIVE full questions, choosing ONE full question from each module.

**Data Mining and Data Warehousing** 

		· Module-1	
1	a.	Differentiate Operational Database system and Data ware house.	(08 Marks)
	b.	List Data Warehouse characteristics.	(04 Marks)
	c.	With a neat diagram, explain a Three - Tier Architecture of Data Warehouse.	(08 Marks)
		OR	
2	a.	Explain the schemas of Multidimensional Data models.	(08 Marks)
	b.	Explain OLAP Operations	(06 Marks)
	C.	Differentiate OLAP and OLTP.	(06 Marks)
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2		Module-2	
3	a.	What is Data Mining? Explain KDD process in Data Mining.	(10 Marks)
	b.	What kinds of pattern can be mined? Explain in brief.	(10 Marks)
		OR	
4	a.	Explain the Data Preprocessing techniques in brief	(10.74 )
	b.	Explain the Dimensionality Reduction with its significance.	(10 Marks)
	O.	Explain the Difficusionarity Reduction with its significance.	(10 Marks)
		Module-3	
5	a.	Explain the Apriori Algorithm with an example.	(10 Marks)
	b.	Explain the Frequent Pattern growth algorithm and mention its advantages.	(10 Marks)
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		OR	
6	a.	Explain Alternative methods for generating frequency item sets in brief.	(10 Marks)
	b.	Explain Evaluation of Association Pattern in brief.	(10 Marks)
and .		Module-4	
7	a.	How does Decision tree induction algorithm works? Explain with an example.	(10 Marks)
	D. #	Describe the methods for comparing classifiers.	(10 Marks)
		OR	
8	a.	Explain Direct methods and Indirect methods of Rule Extraction in brief.	(10 Mayles)
0	h	Explain Nearest Neighbour Classifier. List its characteristics.	(10 Marks)
	U.	Explain Iveal est Iveighbour Classifier. List its characteristics.	(10 Marks)
		Module-5	
9	a.	Describe K means Clustering algorithm. What are its limitations?	(10 Marks)
	b.	Explain DBSCAN algorithm with an example.	(10 Marks)
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		OR CMRIT LIBRARDY	
10	a.	Explain the following in brief: FBANGALORE - 560 037	
		i) Density Based Clustering ii) Graph Based Clustering.	(10 Marks)
	b.	Explain the BRICH Scalable Algorithm.	(10 Marks)

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