SET - 1

Code No: R203147A

III B. Tech I Semester Regular Examinations, Dec/Jan - 2022-23 DATA WAREHOUSING & DATA MINING

(CSE-IOT&CS Including Block Chain Technology)

Time: 3 hours Max. Marks: 70

Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks

		UNIT-I	
1.	a)	What is a Data warehouse? List out and explain the common sectors where Data warehouse is used.	[7M]
	b)	Explain the characteristics and benefits of OLAP for Businesses.	[7M]
		(OR)	
2.	a)	Describe the major components of Data Warehouse.	[7M]
	b)	Explain the characteristics of Star schema in Data Warehouse modeling.	[7M]
0	,	<u>UNIT-II</u>	[77.6]
3.	a)	Define Data Mining. Discuss its applications and advantages.	[7M]
	b)	Present various methods for Data Normalization with suitable examples.	[7M]
		(OR)	
4.	a)	Why is Data preprocessing an inevitable phase in KDD process? Explain the necessary steps and tasks of data preprocessing.	[7M]
	b)	What is the importance of Similarity and Dissimilarity measures in data analytics? Briefly discuss various Similarity and Dissimilarity measures.	[7M]
		UNIT-III	
5.		How is the FP growth algorithm solving the pattern mining problem? Explain the step-by-step procedure. (OR)	[14M]
6.	a)	Discuss the two types of Classification using frequent patterns.	[7M]
	b)	Explain the Constraint based frequent pattern mining.	[7M]
	۵,	UNIT-IV	[, 1,1]
7.	a)	What are the measures used for selecting attributes in decision tree induction algorithm? Explain some popular attribute selection measures.	[7M]
	b)	What is SVM? How SVM is used for classification? (OR)	[7M]
8.	a)	Explain the operational concepts of k-Nearest Neighbor classification. And specify how to choose the best value of 'k'?	[7M]
	b)	Discuss various techniques to improve Accuracy of Classification models.	[7M]

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UNIT-V

9. a) Discuss various internal and external measures used for [7M] cluster evaluation.

b) Demonstrate k-means clustering technique and also discuss [7M] its strengths and weaknesses.

(OR)

10. a) Describe the four types of linkages used in Hierarchical [7M] clustering.

b) Explain the working principle of CURE algorithm for clustering [7M] high dimensional data.