Code No.: CS701PC

R20 H.T.No. 8 R

## CMR ENGINEERING COLLEGE: : HYDERABAD **UGC AUTONOMOUS**

## IV-B.TECH-I-Semester End Examinations (Supply) - April - 2024 **DATA MINING**

(CSE)

[Time: 3 Hours] Note: This question paper contains two parts A and B.

[Max. Marks: 70]

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A	(20 Marks)
1. a)	What is data cleaning?	[2M]
b)	What is Data Discretization?	[2M]
c)	Define frequent itemset.	[2M]
d)	What closed itemset?	[2M]
e)	Define the decision tree.	[2M]
f)	Describe information gain.	[2M]
g)	Define Clustering.	[2M]
h)	State the K-medoids algorithm.	[2M]
i)	What is text mining?	[2M]
j)	Describe web structure mining.	[2M]
2.	What is Data Mining? Explain the process of knowledge discovery in database.	(50 Marks) [10M]
3.	OR Explain the techniques in dimensionality reduction.	[10M]
4.	Describe various types of association rules.	[10M]
	OR	
5.	Describe the FP growth algorithm with an example.	[10M]
6.	Explain K-Nearest-Neighbor Classification algorithm.	[10M]
7.	OR What is tree pruning? Explain the Neïve Deves Classification	140 CON 85
/.	What is tree pruning? Explain the Naïve Bayes Classification.	[10M]
8.	Explain in briefly about K-means algorithm with an example.	[10M]
9.	OR Describe the different types of hierarchical clustering methods.	[10M]
10.	Explain Web Content Mining in detail.	[10M]
OR		
11.	Discuss the techniques and algorithms used to analyze and extract useful information unstructured text data.	on [10M]
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