Code No.: AD514PE

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

III-B.TECH-I-Semester End Examinations (Regular) - January- 2024 DATA WAREHOUSE & DATA MINING (AI&DS)

[Time: 3 Hours] [Max. Marks: 70]

Note: This question paper contains two parts A and B.

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.

	PART-A	(20 Marks)
1. a)	Discuss about data cleaning.	[2M]
b)	List the methods of filling missing values.	[2M]
c)	What is data warehouse?	[2M]
d)	Explain about two differences between OLAP and OLTP.	[2M]
e)		[2M]
f)	Explain about the applications of classification.	[2M]
g)	Discuss the two approaches to improve quality of hierarchical clustering.	[2M]
h)		[2M]
i)		[2M]
j)	List the applications of web usage mining.	[2M]
	PART-B	(50 Marks)
2.a)	Write short notes on data mining task primitives.	[5M]
b)	Discuss in detail about data preprocessing.	[5M]
	OR	
3.a)	What is data mining? Discuss the challenges associated with data mining.	[5M]
b)	Explain about the classification of data mining systems.	[5M]
4.a)	Describe the Data Warehouse architecture.	[5M]
b)	Explain the OLAP operations in the multi dimensional model.	[5M]
	OR	
5.a)	Discuss about the Data cube Technology in detail.	[5M]
b)	Write down the steps in building a data warehousing architecture.	[5M]
6.	Describe Naïve Bayesian Classification method with an example.	[10M]
	OR	
7.	Discuss about Decision tree induction algorithm with an example.	[10M]
8.a)	List out various clustering methods.	[5M]
b)	How to cluster the data sets using k-means clustering algorithm?	[5M]
	OR	
9.a)		[5M]
b)	List and explain the Key Issues in Hierarchical Clustering.	[5M]
10.	Explain the following:	
a)	Spatial data mining.	[5M]
b)	Text Mining.	[5M]
52:00	OR	
11.	Explain briefly about	
a)	Web mining.	[5M]
b)	Mining sequence patterns in transactional databases.	[5M]
