Code No.: IT621PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-II-Semester End Examinations (Regular) - May- 2023 DATA MINING

(IT)

[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 and may have a, b, c as sub questions.

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	PART-A	20 Marks)
	The standard of filling missing values	[2M]
1. a)	List the methods of filling missing values.	[2M]
b)	Interpret the dimensionality reduction? Interpret the support and confidence rules for item set A and item set B?	[2M]
c)	Interpret the support and confidence rules for item set 72 and 150 and	[2M]
d)	Define Maximal frequent item set.	[2M]
e)	Compare information gain and gini index.	[2M]
f)	How will you solve a classification problem using decision trees?	[2M]
g)	Differentiate agglomerative and divisive hierarchical clustering?	[2M]
h)	How can we make k-means algorithm more scalable?	[2M]
i)	What is meant by web content mining?	[2M]
j)	Give the taxonomy of web mining.	[2]
	PART-B	(50 Marks)
_	What is data mining? Discuss the challenges associated with data mining.	[5M]
2.	What is data mining? Discuss the channings associated with and	[5M]
	Illustrate any three measures for dissimilarity of numeric data. OR	
		[10M]
3.	Describe the five primitives for specifying a data mining task?	[10M]
4.		
	{M.O.N.K.E, I } {D,O,N,K,E, I } (111,112,123)	,,
	Support= 60 %, Confidence = 80 %.	
•	OR	[10M]
5.		[]
	TID date items_bought	
	100 10/15/2020 {K, A, B, D}	
	200 10/15/2020 {D, A, C, E, B}	
	300 10/19/2020 {C, A, B, E}	
	400 10/22/2020 {B, A, D}	
-	Find all frequent items using Apriori Algorithm.	[10] [1
6	Explain about Attribute Subset Selection Measures with an example.	[10M]
	OR OR	F103.63
7:	Discuss about Naïve-Bayes classification technique with an illustrative example.	[10M]
8.		ole? [10M]
0.	OR	
0	. How to evaluate clustering algorithms? Provide illustrations.	[10M]
9		[10M]
10	OR	
11	14 A factures in text mining?	[5M]
11	Explain web structure mining with a suitable algorithm.	[5M]
	Explain web structure mining with a structor discretization	