

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

MCA DEGREE END SEMESTER THEORY EXAMINATIONS, NOV /DEC 2024

Third Semester

Master of Computer Applications

MC4020 - Data Mining and Data Warehousing Techniques

Regulations – 2021

Duration : 3 Hrs

Maximum: 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	Explain the tasks of data mining.	UN	1	2
2.	Explain the dependency modeling.	RE	1	2
3.	Infer the association mining rule evaluation metrics with example.	UN	2	2
4.	What is classification?	RE	2	2
5.	Recall the Directed Acyclic Graph (DAG).	RE	3	2
6.	Define rule pruning.	RE	3	2
7.	Define the partitioning around medoid.	RE	4	2
8.	Explain the DBSCAN clustering method.	UN	4	2
9.	Show the star schema with syntax.	RE	5	2
10.	Summarize the ETL.	UN	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*13 = 65)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Explain the architecture of data mining.	UN	1	13
	Or			
	b i Contrast between database & data mining.	UN	1	8
	ii Explain about the challenges of data mining.	UN	1	5
12.	a Analyze the frequent item set in data set.	AN	2	13
	Or			
	b i Distinguish between classification & prediction.	AN	2	6
	ii Examine the association rule.	AN	2	7
13.	a Explain about the regression algorithms.	UN	3	13
	Or			
	b Explain about build the decision tree with suitable example.	UN	3	13

14.	a i	Assume the Fuzzy C-Means clustering algorithm.	AN	4	8
	ii	Simplify the Expectation-Maximization (EM) algorithm.	AN	4	5
Or					
	b i	Survey the K-Medoids clustering.	AN	4	7
	ii	Categorize the types of clustering algorithm.	AN	4	6
15.	a	Inspect the schemas for multidimensional databases.	AN	5	13
	Or				
	b i	Inference the multidimensional data model.	AN	5	6
	ii	Contrast between database & data warehouse.	AN	5	7

*PART – C (Marks 1*15 = 15)*

<i>Q.No</i>	<i>Questions</i>		<i>BLT</i>	<i>CO</i>	<i>Marks</i>
16.	a i	Survey the types of outliers in data mining.	AN	1	7
	ii	Dissect the Biclustering algorithms.	AN	2	8
Or					
	b	Simplify the Support Vector Machine (SVM) algorithm.	AN	4	15