BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE(AUTONOMOUS)

II –MCAIII-Semester Regular Examinations (BR23), December - 2024
SUBJECT NAME: Data Warehousing and Mining (BRANCH): MCA

Time: 3 hours   Max. Marks: 70

Answer any Five Questions One Question for One UNIT
ALL the Question Carry Equal Marks

UNIT-I	Marks	CO	BL
1.a) How to use and explain various preprocessing techniques used in data mining	7M	CO1	L1
b) Discuss the concept of similarity and dissimilarity in data mining	7M	CO1	L6
OR			
2.a) Compare between OLAP and OLTP?	7M	CO1	L2
b) Make use the concept of measurement and data collection issues related to data quality	7M	CO1	L3

UNIT-II	Marks	CO	BL
3.a) How to use a Decision Tree induction and explain this with an example	7M	CO2	L1
b) Determine the various methods for evaluating the performance of a classifier	7M	CO2	L5
OR			
4.a) Explain and write Bayesian classifier for Bayesian belief networks	7M	CO2	L2
b) Elaborate the concept of Support Vector Machines in detail	7M	CO2	L6

UNIT-III	Marks	CO	BL
5.a) What is principle of Apriori? How it is used in Frequent Item Set Generation using this Apriori Algorithm	7M	CO3	L1
b) Determine the FP Growth Algorithm.	7M	CO3	L5
OR			
6.a) Explain Different Techniques for handling continuous attributes.	7M	CO3	L2
b) Justify that how different sub graph patterns are used in data Mining	7M	CO3	L5

UNIT-IV	Marks	CO	BL
7.a) What is the Clustering? Write about K-Means algorithm	7M	CO4	L1
b) Explain the concept of Agglomerative Hierarchical clustering	7M	CO4	L2
OR			
8.a) What is a Cluster Evaluation? Explain the Unsupervised Cluster Evaluation using cohesion and separation,	7M	CO4	L1
b) Illustrate the Scalable Clustering algorithm	7M	CO4	L2

UNIT-V	Marks	CO	BL
9.a) Examine about the Web data mining and also explain its characteristics	7M	CO5	L4

b)	Examine the web content mining with an example.	7M	CO5	L4
	OR			
10.a)	Explain the architecture of a search engine	7M	CO5	L5
b)	Illustrate the concept of Page Ranking with an valid example.	7M	CO5	L2

****

Bonam Venkata Chalamayya Institute of Technology & Science
(Autonomous)

Department of Computer Applications

Course: DATA WAREHOUSING AND MINING(C212) Year / Semester : II/ I

Branch: MCA

Faculty: Mr. A V S M GANESH Academic Year: 2024-2025

Following this course, students will be able to

Course Outcomes

After completing this course the student will be able to:

C212.1 Explain the basics of types of data, quality of data, suitable techniques required for preprocessing and measures required to perform data analysis (**UNDERSTANDING**)

C212.2 Describe the need of classification, identify suitable technique(s) to perform classification, model building and evaluation (**UNDERSTANDING**)

C212.3 Analyse the requirements and usage of association rule mining on categorical and continuous data. (**ANALYZING**)

C212.4 Practice, Compare and Identify suitable clustering algorithm(s) (apply with open source tools), interpret, evaluate and report the result (**APPLY**)

C212.5 Apply and describe the requirements and the need of web mining (**APPLY**)

FACULTY HOD