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BCACAC 212



**Credit Based Third Semester B.C.A. Degree Examination,
November/December 2015
(New Syllabus) (2013-14 Batch Onwards)
DATA MINING**

Time : 3 Hours

Max. Marks : 80

*Note : Answer **any ten** questions from Part A and **one full** question from **each** Unit in Part B.*

PART – A

(10x2=20)

1. a) Define KDD.
- b) What is Dimension Modelling ?
- c) List three types of Frequent Episodes.
- d) Define Core Object and Cluster.
- e) Define Support and Confidence.
- f) List the structures used in Dynamic Itemset Counting algorithm.
- g) Write two advantages of decision trees.
- h) Define Guillotine cut.
- i) What is splitting criterion ?
- j) Define Index and Reference node.
- k) Define Temporal Data Mining.
- l) What is Time Window ?



PART – B

UNIT – I

2. a) List and explain any five application areas of data mining.
b) Explain Slicing and Dicing with suitable examples.
c) Compare data mining and DBMS. (6+6+3)
3. a) What are Data Marts ? List different types of Data Marts.
b) Explain Star Schema and Snowflake Schema with neat diagram for each.
c) Explain different stages of KDD. (3+6+6)

UNIT – II

4. a) Explain Partition algorithm with suitable example.
b) Compare Numerical and Categorical clustering.
c) Write a note on CLARA. (7+4+4)
5. a) Explain the pruning step of Apriori algorithm with example.
b) Differentiate Divisive and agglomerative clustering techniques.
c) Write a note on Pincer-Search Algorithm. (7+3+5)

UNIT – III

6. a) Explain how RBF networks are trained.
b) Explain decision trees with suitable example.
c) Define Rough Sets, Information System and Indiscernibility Relation. (5+4+6)
7. a) Write a note on Best Split.
b) Discuss the application areas of Neural Networks.
c) Explain the terms Supervised and Unsupervised Learning in case of Neural Networks. (5+4+6)



UNIT – IV

8. a) Write a note on Web Mining.
b) List and explain different types of Temporal Data.
c) Write a note on :
 i) Temporal Association Rules
 ii) Spatial Data Mining.

(4+5+6)

9. a) Explain Sequence Mining with suitable example.
b) List and explain Temporal Data Mining tasks.
c) List and explain the features of Unstructured Text.

(4+5+6)
