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BCACAC 212

**Credit Based Third Semester B.C.A. Degree
Examination, October/November 2017
(Common to all Batches)
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

(10×2=20)

1. a) Define data mining.
- b) What is dimension modeling ?
- c) Define slicing and dicing operations of OLAP.
- d) List different types of frequent episodes.
- e) List the structures used in Dynamic Itemset Counting Algorithm.
- f) Define FP-tree.
- g) Define clustering.
- h) What is splitting criterion ?
- i) Define index node and reference node.
- j) What is page rank ?
- k) Define temporal data mining.
- l) What is spatial data mining ?

PART – B

Unit – I

2. a) Explain any five application areas of data mining.
- b) Explain fact constellation schema with a diagram.
- c) Explain the different stages of KDD.

(5+5+5)

P.T.O.



3. a) With a diagram, explain the data warehouse architecture.
- b) Explain various issues and challenges of data mining.
- c) With a neat diagram, explain snowflake schema.

(5+5+5)

Unit – II

4. a) Explain Apriori algorithm.
 - b) Differentiate agglomerative and divisive clustering.
 - c) Write a note on DBSCAN.
5. a) Explain partition algorithm.
 - b) Compare categorical and numerical clustering.
 - c) Write a note on PAM.

(6+5+4)

(6+4+5)

Unit – III

6. a) Explain decision trees with suitable example.
 - b) Describe the learning technique in Multi Layer Perceptron.
 - c) Explain support vector machine.
7. a) Explain how RBF networks are trained.
 - b) Write a note on Rough Set Theory.
 - c) Explain the genetic algorithm.

(5+5+5)

(5+5+5)

Unit – IV

8. a) What are the features of unstructured text ? Explain.
 - b) Explain the different types of temporal data mining tasks.
 - c) Write a note on web structure mining.
9. a) Write a note on GSP algorithm.
 - b) Write a note on web usage mining.
 - c) Explain episode discovery.

(6+5+4)

(5+5+5)