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BCACAC 212

**Credit Based Third Semester B.C.A. Degree
Examination, November/December 2018
DATA MINING
(Common to All Batches)**

Time : 3 Hours

Max. Marks : 80

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

PART – A

(10×2=20)

1. a) Define Data Cube.
- b) Define data mining.
- c) What is supervised learning ?
- d) Define FP tree.
- e) Define slicing and dicing operations of OLAP.
- f) List the structures used in Dynamic Item set Counting algorithm.
- g) Define clustering.
- h) What is splitting criterion ?
- i) Define Index and Reference node.
- j) What is spatial data mining ?
- k) What is page rank ?
- l) What is neural network ?

PART – B

Unit – I

2. a) Explain fact constellation with an example.
- b) Explain different stages of KDD.
- c) Explain data warehouse back end process.

(5+5+5)



3. a) What is summary measures ? Explain.
b) Explain the data warehouse architecture with neat diagram.
c) What is a data mart ? Describe its types. (4+7+4)

Unit – II

4. a) Explain Apriori algorithm with an example.
b) Differentiate agglomerative and divisive clustering techniques.
c) Write a note on DBSCAN. (6+5+4)
5. a) Explain Partition algorithm with an example.
b) Compare categorical and numerical clustering.
c) Write a note on CLARA. (5+5+5)

Unit – III

6. a) List advantages and drawbacks of decision trees.
b) What is RBFN ? Explain with a neat sketch.
c) Explain the mutation and crossover operations in genetic algorithm. (5+4+6)
7. a) Explain the structure of an Artificial Neuron with neat diagram.
b) Explain SVM.
c) What is rough set ? Explain with an example. (4+5+6)

Unit – IV

8. a) Write a note on Web Content Mining.
b) What are the features of unstructured text ? Explain.
c) List and explain various temporal data mining tasks. (4+5+6)
9. a) Write a note on Web Structure Mining.
b) Write a note on GSP algorithm.
c) Explain episode discovery. (5+5+5)