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BCACAC 212

**III Semester B.C.A. Degree Examination,
October/November 2019**

(Credit Based Semester Scheme)

(Common to All Batches)

DATA MINING

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.

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PART – A

1. Answer **any ten** of the following :

(10 × 2 = 20)

- Define Data Mining.
- What is Supervised Learning?
- Define Border Set and Maximal Frequent Set.
- What is FP tree?
- List the structures used in Dynamic Itemset Counting Algorithm.
- Write the two advantages of Decision Trees.
- Define Clustering.
- What is Splitting Criterion?
- Define Rough Set.
- What is Neural Network?
- What is Spatial Data Mining?
- List the types of Temporal Data.

PART – B

UNIT – I

2. (a) Explain any five application areas of data mining.
(b) With a diagram, explain the Data Warehouse Architecture.
(c) Compare Data Mining and DBMS.

(5 + 7 + 3)



3. (a) Explain the different stages of KDD.
(b) Explain the following OLAP operations with neat diagrams.
(i) Drill Up
(ii) Dicing
(c) With a neat diagram explain Star Schema. **(5 + 5 + 5)**

UNIT - II

4. (a) Explain Apriori Algorithm.
(b) Write a note on CLARA.
(c) Differentiate agglomerative and divisive clustering. **(5 + 5 + 5)**
5. (a) Write a note on decision tree construction principle.
(b) Explain Partition Algorithm.
(c) Write a note on DBSCAN. **(5 + 5 + 5)**

UNIT - III

6. (a) Write a note on Best Split.
(b) Explain the Support Vector Machines.
(c) Describe the Learning Technique in Multi Layer Perception. **(5 + 5 + 5)**
7. (a) Write a note on Rough Set Theory.
(b) Explain Decision Tree with suitable example.
(c) Explain Genetic Algorithm. **(5 + 5 + 5)**

UNIT - IV

8. (a) Explain the features of Unstructured Text.
(b) Explain the types of Web Usage Mining.
(c) Explain Episode Discovery. **(5 + 5 + 5)**
9. (a) Write a note on Web Mining.
(b) Explain various Temporal Data Mining Tasks.
(c) Explain Sequence Mining with suitable example. **(5 + 5 + 5)**