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BCACAC 212

**Credit Based Third Semester Equivalent Subject for IV Sem. B.C.A. Degree
Examination, September 2022**

(Semester Scheme) (Common to all Batches)

DATA MINING

(Equivalent to BCACAC 253 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

1. a) Define Data Mining. **(10×2=20)**
b) What is Data Warehouse ?
c) What is Supervised learning ?
d) Define Maximal Frequent Set and Border Set.
e) What is stemming ?
f) What is Page Rank ?
g) What is Temporal Data mining ?
h) Define Rough Set.
i) What are transverse and intrinsic links ?
j) What is mutation ?
k) Differentiate Numerical and Categorical clustering.
l) What is Neural Network ?

PART – B

Unit – I

2. a) Explain data warehouse architecture with a neat diagram.
b) Compare Data Mining and DBMS.
c) What is Data Mart ? Describe its type. **(6+4+5)**

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3. a) Explain the different stages of KDD.
b) Explain the following OLAP operation with neat diagrams.
 i) Slicing ii) Dicing
c) Explain different Data Warehouse Schema. **(5+6+4)**

Unit – II

4. a) Explain Partition Algorithm with an example.
b) Write a note on CLARA.
c) Explain briefly hierarchical and partitioning clustering. **(6+5+4)**
5. a) Explain Apriori Algorithm with an example.
b) Differentiate agglomerative and divisive clustering.
c) Write a note on DBSCAN. **(6+4+5)**

Unit – III

6. a) Explain Support Vector Machines.
b) Explain Decision tree with suitable example.
c) Describe the learning technique in Multi-Layer Perceptron. **(5+5+5)**
7. a) Explain genetic algorithm.
b) What is RBFN ? Explain with a neat sketch.
c) Explain the typical artificial neurons with activation function. **(5+5+5)**

Unit – IV

8. a) What are the features of unstructured text ? Explain.
b) Write a note on Web Usage Mining.
c) Explain Episode Discovery. **(5+5+5)**
9. a) Write a note on Web Content mining.
b) Explain the different types of temporal data mining.
c) Explain GSP algorithm. **(5+5+5)**
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