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BCACAC 212

Credit Based Third Semester B.C.A. Degree Examination, April 2021
(Semester Scheme)
(2019 – 20 and Earlier 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.

PART – A

(10×2=20)

1. a) Define data cube.
- b) What is data warehouse ?
- c) Define maximal frequent set and border set.
- d) What is FP tree ?
- e) What is mutation ?
- f) What are transverse and intrinsic links ?
- g) What is page rank ?
- h) What is stemming ?
- i) List the structures used in dynamic item set counting algorithm.
- j) What is temporal data mining ?
- k) Define rough set.
- l) What is entropy ?

PART – B

UNIT – I

2. a) Explain different stages of KDD.
- b) Explain data warehouse architecture with neat diagram.
- c) Compare data mining and DBMS.

(5+6+4)

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3. a) Explain star schema with diagram.
b) Explain the following OLAP operations with neat diagrams.
(i) Slicing (ii) Dicing
c) Explain Meta data with their types. (5+5+5)

UNIT – II

4. a) Explain APRIORI algorithm with an example.
b) Compare categorical and numerical clustering.
c) Write a note on CLARA. (6+5+4)
5. a) Explain Partition algorithm with an example.
b) Write a note on STIRR.
c) Differentiate hierarchical and partition clustering. (6+4+5)

UNIT – III

6. a) Explain RBFN with a neat diagram.
b) Explain the typical artificial neurons with activation function.
c) Explain mutation and crossover operation in genetic algorithm. (5+5+5)
7. a) Explain rough set theory.
b) Write a note on best split.
c) Explain decision tree with suitable example. (5+5+5)

UNIT – IV

8. a) Explain GSP algorithm.
b) State the important features that can be extracted from an unstructured document.
c) Write a note on web usage mining. (5+5+5)
9. a) Write a note on web content mining.
b) Explain episode discovery.
c) List and explain various temporal data mining tasks. (4+5+6)
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