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BCACAC 283

**Choice Based Credit System Fourth Semester B.C.A. Degree
Examination, September 2022
(2020-21 Batch Onwards)
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) What is Data Mining ?
- b) What is Data Cube ?
- c) What is Operational Data ?
- d) Define Support and Confidence.
- e) Define Rough Set.
- f) Write the features of efficient algorithm.
- g) What is Tournament selection ?
- h) Define Noise.
- i) Mention two application of genetic algorithm in data mining.
- j) What is Stemming ?
- k) What is Co-citation ?
- l) Define Stop-words.

PART – B

Unit – I

2. a) Explain the stages of KDD.
- b) Explain the related areas in which data mining is widely used.
- c) Explain the three-level architecture of data warehouse. (5+5+5)
3. a) State the differences between KDD and data mining.
- b) Describe with example any two warehouse schema.
- c) Explain briefly any five application areas of data mining. (5+5+5)

P.T.O.

**Unit – II**

4. a) Explain Apriori algorithm with an example.
b) Write advantage and disadvantages of decision tree.
c) Describe the application areas of neural networking. **(5+5+5)**
5. a) What is unsupervised learning ? Explain.
b) Explain support vector machine.
c) Define rough sets and information system. **(5+5+5)**

Unit – III

6. a) Differentiate agglomerative and divisive clustering.
b) Write a note on PAM.
c) Explain cross over operation in genetic algorithm. **(5+5+5)**
7. a) Describe the technique of Genetic algorithm.
b) Explain categorical clustering algorithms.
c) Explain roulette wheel selection and rank based selection. **(5+5+5)**

Unit – IV

8. a) Write a note on web text mining.
b) Explain the two main approaches in web usage mining.
c) Explain GSP algorithm. **(5+5+5)**
 9. a) Explain the relationship between information retrieval and information extraction in text data mining.
b) Write a note on web usage mining.
c) Explain the types of temporal data. **(5+5+5)**
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