



K23U 0446

Reg. No. :

Name :

**VI Semester B.C.A. Degree (C.B.C.S.S. – OBE – Regular/Supplementary/
Improvement) Examination, April 2023
(2019 and 2020 Admissions)
Discipline Specific Elective
6B20BCA-E01 : DATA MINING AND DATA WAREHOUSING**

Time : 3 Hours

Max. Marks : 40

PART – A

Answer **all** questions. **Each** question carries **1** mark.

1. What is a database maintained separately from an organizations operational database called as ?
2. What is decision tree used for ?
3. Expand CART.
4. Write an example for categorical clustering.
5. What is entropy ?
6. Which association rule mining algorithm is suited for transaction databases with frequent updates ?

PART – B

Answer **any six** questions. **Each** question carries **2** marks.

7. Define association rule.
8. What are frequent episodes ?
9. What is prediction ?
10. What is meant by support of an itemset ?
11. What is the main difference in Pincer-search algorithm compared to Apriori algorithm ?

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12. What is a verification model ?
13. What is temporal data mining ?
14. What is a core object in DBSCAN ?

PART – C

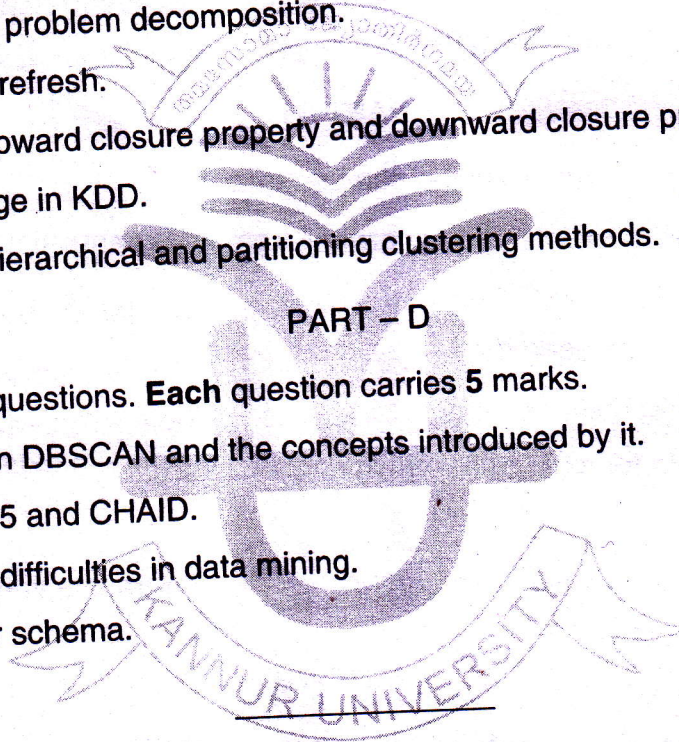
Answer **any four** questions. **Each** question carries **3** marks.

15. Describe the subject-oriented feature of data-warehouse.
16. Write notes on problem decomposition.
17. Describe data refresh.
18. Differentiate upward closure property and downward closure property.
19. List all the stage in KDD.
20. Differentiate hierarchical and partitioning clustering methods.

PART – D

Answer **any two** questions. **Each** question carries **5** marks.

21. Write notes on DBSCAN and the concepts introduced by it.
22. Compare C4.5 and CHAID.
23. Describe the difficulties in data mining.
24. Describe star schema.





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(2019 Admission)**

Core Course

Discipline Specific Elective

6B20BCA-E01 : DATA MINING AND DATA WAREHOUSING

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short Answer)**

Answer all questions :

(6×1=6)

1. What is Data mining ?
2. Expand OLAP.
3. What is a Decision Tree ?
4. Expand ID3.
5. What is KDD ?
6. List any two advantages of Data Warehouses.

**PART – B
(Short Essay)**

Answer any 6 questions :

(6×2=12)

7. What is Web Mining ?
8. What is CLARA ?
9. What are frequent itemsets ?
10. Define support in Association rules.

P.T.O.



11. Give four application areas of Data Mining.
12. What is Data Preprocessing ?
13. What is a Data Warehouse ?
14. How does Pincer Search overcome the disadvantage of Apriori algorithm ?

**PART – C
(Essay)**

Answer **any 4** questions :

(4x3=12)

15. What is Data Visualization ?
16. Explain about Spatial Mining.
17. What are partitioning algorithms ?
18. Explain hierarchical clustering.
19. Explain the limitations of the Apriori algorithm.
20. Describe briefly the stages of KDD.

**PART – D
(Long Essay)**

Answer **any 2** questions :

(2x5=10)

21. Explain the *k*-Medoid algorithm.
 22. Describe briefly the C4.5 algorithm. How does it differ from ID3 ?
 23. Discuss the challenges faced in Data Mining.
 24. Explain the various OLAP operations.
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