



K25U 0287

Reg. No. :

Name :

**VI Semester B.C.A. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, April 2025
(2019 to 2022 Admissions)
Discipline Specific Elective**

6B20BCA – E01 : DATA MINING AND DATA WAREHOUSING

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short Answer)**

Answer **all** questions. 1 mark **each**.

(6×1=6)

1. Define a data warehouse.
2. What does KDD stands for ?
3. Define web mining.
4. What is metadata in the context of a data warehouse ?
5. Name any two data mining techniques.
6. Define a decision tree.

**PART – B
(Short Essay)**

Answer **any 6** questions. 2 marks **each**.

(6×2=12)

7. Differentiate between hierarchical clustering and partitioning clustering.
8. List two OLAP operations with examples.
9. What are the differences between DBMS and data mining ?
10. Describe spatial data mining.
11. What is the purpose of the apriori algorithm in association rule mining ?
12. List the main paradigms of clustering techniques.
13. Explain the concept of splitting criteria in decision tree construction.
14. Briefly describe the partition algorithm for association rule mining.

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**PART – C
(Essay)**

Answer **any 4** questions. **3** marks **each**.

(4×3=12)

15. Describe the CART algorithm.
16. Explain the architecture of a data warehouse.
17. Identify the challenges associated with data mining.
18. Describe the incremental algorithm for association rule mining.
19. How does the DBSCAN clustering technique work ?
20. What are the key principles of decision tree construction ?

**PART – D
(Long Essay)**

Answer **any 2** questions. **5** marks **each**.

(2×5=10)

21. Explain the backend processes involved in a data warehouse.
 22. Discuss the applications of data mining.
 23. Explain the FP-tree growth algorithm for association rule mining.
 24. Compare the CLARA and CLARANS clustering techniques.
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