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.

P.T.O.

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.