



K21U 0189

Reg. No. :

Name :



VI Semester B.C.A. Degree (CBCSS – Reg./Supple./Improv.)
Examination, April 2021
(2014-2018 Admissions)

Core Course

6B18BCA : DATA MINING AND DATA WAREHOUSING

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer. (8×0.5=4)
- a) Which operation deals with selecting all but one dimension of the data cube ?
 - b) A data warehouse is built on historical data and is not guaranteed to be up-to-data information. **True** or **False**
 - c) How many categories of functions involved in Data Mining ?
 - d) What is the use of data cleaning ?
 - e) Fraud detection is an application of data mining. **True** or **False**
 - f) The first steps involved in the knowledge discovery is
 - g) A data mart is designed to optimize the performance for well-defined and predicible uses. **True** or **False**
 - h) Expand DBSCAN.

SECTION – B

Write short notes on **any seven** of the following questions. (7×2=14)

- 2. What is Data Warehouse ?
- 3. Define data cube.
- 4. What is Data Mart ?

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5. What is metadata ?
6. Brief note on OLAP engine function.
7. Briefly explain data cleaning.
8. What is an association rule ?
9. Define FP-Tree.
10. What is DBSCAN ?
11. Brief note on STIRR.
12. What is a decision tree ?
13. Briefly explain best split in decision tree.
14. What is Gini index ?
15. Define CART.

SECTION – C

Answer **any four** of the following questions. (4×3=12)

16. What is Data Mining ?
17. Explain star schema.
18. Compare ROLAP and MOLAP.
19. Explain the functions of data warehouse.
20. Differentiate database and data mining.
21. Briefly explain the data mining applications.
22. Explain Apriori algorithm.
23. Compare CLARA and CLARANS.



SECTION – D

Write an essay on **any two** of the following questions.

(2×5=10)

24. Compare OLTP and OLAP. Explain OLAP operations.
 25. What is KDD and KDD Process ? Explain.
 26. Explain data warehouse architecture.
 27. Explain data mining techniques.
 28. Write down partition algorithm in detail.
 29. Differentiate hierarchical and partitioning clustering.
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