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Roll No.

TBC-604(A)

B. C. A. (SIXTH SEMESTER)

MID SEMESTER

EXAMINATION, April, 2023

DATA WAREHOUSING AND DATA MINING

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) What is Data Warehouse ?
Diagrammatically illustrate and discuss the data warehousing architecture. (CO2)

OR

- (b) Explain the guidelines for data warehouse implementation. (CO1)

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TBC-604(A)

2. (a) Explain the various characteristics of data warehouse. What is the need to have a separate data warehouse? (CO1)

OR

- (b) What is Meta data? Why is metadata especially important in a data warehouse? Describe the types of metadata. (CO1)

3. (a) List and discuss the steps involved in mapping the data warehouse to a multiprocessor architecture. (CO2)

OR

- (b) What is a concept hierarchy? Describe the OLAP operations in the Multidimensional data model. (CO2)

4. (a) Illustrate the different schemes for multidimensional databases. (CO1)

OR

- (b) Write short notes on the following: (CO1)

(i) OLTP vs OLAP

(ii) Steps in implementing a data mart

(3)

5. (a) Explain ETL process in detail. (CO2)

OR

- (b) Why is data preprocessing required? What are the different forms of data preprocessing? Explain in detail. (CO2)

TBC-604(A)