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Roll No. ....

## TCS-833

## B. Tech. (CSE) (EIGHTH SEMESTER) MID SEMESTER EXAMINATION, 2021

DATA MINING AND WAREHOUSING

Time: 11/2 Hours

## Maximum Marks: 50

- **Note:** (i) Answer all the questions by choosing any *one* of the sub-questions.
- (ii) Each question carries 10 marks.
- 1. (a) Multidimensional data models can exist in the form of star schema, snowflake schema and fact constellation schema. Explain all these forms with a neat diagram.

OR

(b) What is data cleaning? In real world data, tuples with missing values for some attributes are common occurrence.

Describe various methods for handling this problem.

10 Marks (CO2)

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(a) Describe

the various

data mining

(3)

functionalities with examples.

2

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

10 Marks (CO1)

OR

(b) Write short notes on the following:

OR

10 Marks (CO3)

(b) Write short notes on the following:

10 Marks (CO1)

(i) Concept Hierarchy

(ii) Data discrimination characterization and

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(ii) OLTP vs. OLAP

(i) Data Warehouse Charactetistics

10 Marks (CO1)

(iii) Data Mart

(iv) Ordinal and nominal data

ယ (a) What is data mining? Explain the steps of the KDD process. data mining process. Give the sketch of 10 Marks (CO3)

OR

(b) Discuss the following OLAP operations:

10 Marks (CO1)

(i) Roll-up

(ii) Drill-down

(iii) Slice and Dice

(iv) Pivot

(a) (i) Discuss the Applications of Data

(ii) ETL

Mining.

10 Marks (CO2)

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<u></u> Why is data preprocessing required ? preprocessing? Explain in detail. What are the different forms of data

10 Marks (CO2)

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