

Roll No.

(07/21-II)

10576

**Ph. D. Course Work Computer Science
EXAMINATION**

(For Batch 2017 & Onwards)

DATA MINING AND DATA WAREHOUSING

PH-CS-03 (E-iv)

Time : Three Hours

Maximum Marks : 70

Note : Question No. 1 is compulsory carry 10 marks. In addition to this attempt *four* more questions carry 15 marks by selecting *one* question from each Unit.

1. (a) What is a virtual warehouse ?
- (b) What are the parameters for selecting and using the right data mining technique ?

- (c) Explain the concept of Data Generalization.
- (d) Explain the concept of Data Cleaning.
- (e) What do you mean by Data reduction ?

Unit I

2. (a) What is a Data Warehouse ? Explain the Data warehouse a brief history and today's development environment.
 - (b) Explain the various challenges faced during the construction of data warehouse in detail.
3. Explain the following in detail :
 - (a) Types of Data and their uses in data warehousing
 - (b) Business Data Warehouse Design.

Unit II

4. What is Data Asset ? Explain the concept of unlocking the data asset for end users in detail.

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5. What do you mean by implementing the warehouse ? Explain the obstacles to implementation the warehouse in detail

Unit III

6. (a) What do you mean by OLAP ? Explain the concept of operational database system and data warehouse.
(b) What do you mean by data warehouse management ? Explain its uses in detail.
7. (a) What do you mean by Data pre-processing ? Explain the data pre-processing stages in detail.
(b) What is Data Mining ? Explain the architectures of data mining system in detail. <https://www.cdluonline.com>

Unit IV

8. (a) Differentiate between the classifier and predictor used for data analysis. Also describe the classification model including the learning and testing steps.

- (b) Explain the mining association rules in large database in detail.

9. (a) Why classification is done ? How data is prepared for classification ? Explain in detail.
(b) Explain mining single-dimensional Boolean association rules from transactional database in detail.

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