

Roll No.

36158

Printed Pages : 2

BT-6/M-18**DATA WAREHOUSE AND DATA MINING****Paper-IT-310N**

Time allowed : 3 hours]

[Maximum marks : 75

Note : Student will be required to attempt five questions in all, selecting at least one question from each unit.

Unit-I

1. (a) What is Data warehouse ? Why data warehousing is important for decision support ? 5
- (b) Present a diagrammatic representation of a typical architecture and main components of a data warehouse. 10
2. (a) Discuss various principles of data warehousing required to design a data warehouse. 5
- (b) What is Multidimensional Data Model ? Discuss the types of attributes and tables used in a multidimensional data model. Illustrate with the help of an example. 10

Unit-2

3. (a) Discuss various issues in designing a business information warehouse. 10
- (b) How is data warehousing technology related to data mining technology ? 5

36158

[P.T.O.]

(2)

4. (a) Explain various obstacles in the implementation of a data warehouse. 8
- (b) How can you justify the implementation of a data warehouse as a requirement for organization ?

Unit-3

5. (a) "Data Mining is a multi-disciplinary field." Discuss. 5
- (b) What is difference between data mining and a normal query environment ? What can data mining do that SQL can't? Discuss. 5
- (c) What is the role of data mining in KDD process ? 5
6. (a) "All patterns are not interesting." Comment. What makes a pattern interesting ? 6
- (b) Explain the development of data cube technology. 9

Unit-4

7. What do you mean by 'Data Pre-Processing' ? Why it is necessary ? Explain the methods for data integration and transformation. 15
8. (a) What do you understand by 'Association Rule Mining' in transactional databases ? 5
- (b) Write short notes on the following :
 - (i) Analytical characterization.
 - (ii) Constraint based association. 2×5=10

36158