| Roll No. | 3615 |
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| 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.

2. (a) Discuss various principles of data warehousing required to design a data warehouse.

(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.
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Unit-2

- (a) Discuss various issues in designing a business information warehouse.
 - (b) How is data warehousing technology related to data mining technology?
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 (a) Explain various obstacles in the implementation of a data warehouse.

(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 SQI can't? Discuss.
 - (c) What is the role of data mining in KDD process?
- 6. (a) "All patterns are not interesting." Comment. What makes a pattern interesting?
 - (b) Explain the development of data cube technology.

Unit-4

- What do you mean by 'Data Pre-Processing'? Why it is necessary? Explain the methods for data integration and transformation.
- 8. (a) What do you understand by 'Association Rule Mining' in transactional databases?

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 - (b) Write short notes on the following:

36158

- Analytical characterization.
- (ii) Constraint based association. 2×5=10

P.T.O.