

BT-6/M-20

36158

DATA WAREHOUSE & DATA MINING

Paper– IT-310N

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *five* questions in all selecting at least *one* question from each unit. All questions carry equal marks.

UNIT-I

1. What are the important characteristics of data warehouse? Write the historic development of data warehouse systems. Explore the crucial decisions in designing a business data warehouse. 15
2. Elaborate the different type of data and their use in creating a data asset. Draw and explain each component of data warehouse architecture. 15

UNIT-II

3. What technical or technological issues are required to be considered for implementing a data warehouse in your organization? Describe organizational implications of data warehouse. 15
4. How integration of different sources of data in data warehouse, justifies it as data warehouse? What are the different techniques by which user access and business access to information are populated? 15

UNIT-III

5. Compare between continuous and categorical data. Explore classification and discrimination as data mining functionality. How data warehouse and data mining systems are integrated?
15
6. (a) What is OLAP? Explain roll-up, slice and pivot operations with suitable example.
- (b) Write the usage of data warehouse. Write the phases to implement data warehouse system. (8+7=15)

UNIT-IV

7. (a) Write a brief note on different strategies for data integration and transformation.
- (b) What are data mining primitives? Explain in brief.
- (c) What is information gain in attribute oriented induction? How it is computed? (3×5=15)
8. (a) Explain if association rule mining is supervised learning or unsupervised learning.
- (b) How to mine association rules in large databases? Discuss.
- (c) Briefly explain constraint based associations. (3×5=15)
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