



**B.Tech V Semester Supplementary Examinations, June/July 2023**  
**DATA WAREHOUSING AND DATA MINING**  
**(INFORMATION TECHNOLOGY)**

Maximum Marks: 70

Date:28.06.2023 Duration: 3 hours

- Note: 1.This question paper contains two parts A and B.  
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.  
3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.  
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

Answer all the following questions

(10x2M=20 Marks)

- 1 Define data warehouse.
- 2 List the Data warehouse Characteristics.
- 3 Define data mart.
- 4 Define Data mining.
- 5 what is data transformation?
- 6 What is data warehouse metadata?
- 7 What is classification?
- 8 What is decision tree?
- 9 What is an outlier?
- 10 Define cluster Analysis

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Define data warehouse? Differentiate between operational database systems and data warehouses? [10]

OR

- 12 Draw the architecture of data warehouse and explain the three tiers in detail. [10]

- 13 Describe the Architecture of a typical data mining system/Major Components? [10]

OR

- 14 List out the differences between OLTP and OLAP. [10]

- 15 Consider the Data set D. Given the minimum support2, apply apriori algorithm on this dataset and find Closed frequent itemset. [10]

Transaction ID	Items
100	A,C,D
200	B,C,E
300	A,B,C,E
400	B,E

OR

- 16 Describe the data classification process with a neat diagram. How does the Naive Bayesian classification work? Explain. [10]
- 17 Discuss about model based clustering methods. [10] OR
- 18 Explain about the partitioning methods. [10]
- 19 Explain Outlier analysis with example? [10] OR
- 20 Explain about DBSCAN Algorithm? [10]