



B.Tech IV Year I Semester Supplementary Examinations, January 2023
DATA WAREHOUSING AND DATA MINING
(INFORMATION TECHNOLOGY)

Maximum Marks: 70

06-01-2023

Duration: 3 hours

Part-A

Answer all the following questions

(10x2M=20 Marks)

- 1 List the characteristics of a data ware house.
- 2 Define OLAP.
- 3 Define data mart.
- 4 Define Data mining.
- 5 what is data transformation?
- 6 What is data warehouse metadata?
- 7 Define frequent set and border set.
- 8 What is classification?
- 9 Explain the differences between star and snowflake schema.
- 10 What are outliers?

Part-B

Answer ALL the 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 Consider the Data set D. Given the minimum support₂, apply apriori algorithm on this dataset.

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

- 15 Briefly explain about the multidimensional data cube and it's operations. [10]
- OR
- 16 What is classification and prediction ? explain with an example. [10]
- 17 Explain the algorithm for constructing a decision tree from training samples. [10]
- OR
- 18 Explain Outlier analysis with example? [10]
- 19 Explain Hierarchical method clustering of classification with example? [10]
- OR
- 20 Explain Density-Based Clustering Methods of classification with example? [10]

