

III B. Tech II Semester Supplementary Examinations, November-2022
DATA WAREHOUSING AND DATA MINING

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answer **ALL** the question in **Part-A**
 3. Answer any **FOUR** Questions from **Part-B**
- ~~~~~

PART -A**(14 Marks)**

1. a) What kind of patterns can be mined using Data mining concepts? [2M]
- b) Define Data cleaning. [2M]
- c) How do you measure the accuracy of a classification model? [2M]
- d) Is it possible to predict class labels without prior information, using Bayes' Belief Network? [3M]
- e) Explain any real-world problem that can be solved by the Association rule mining. [3M]
- f) List the types of clustering. [2M]

PART -B**(56 Marks)**

2. a) List and explain the general characteristics of a Dataset. [7M]
- b) Explain various plots useful for data visualization. [7M]
3. a) Discuss the methods to handle missing values. [7M]
- b) List and explain various Data reduction strategies. [7M]
4. a) Trace the Haunt's algorithm with the help of a case study. [7M]
- b) Explain the Nominal attributes splitting with a suitable example. [7M]
5. a) Derive the expression for Bayes' error rate. [7M]
- b) Explain the working of Bayes' Belief Network with a case study. [7M]
6. a) Trace the FP-Growth algorithm with a case study. [7M]
- b) Illustrate the frequent itemset generation using the Apriori algorithm. [7M]
7. a) Illustrate DBSCAN clustering with a suitable diagram. [7M]
- b) Compare K-Means with Agglomerative Hierarchical clustering. [7M]

1 of 1