

Code: IT6T4

III B.Tech-II Semester–Regular/Supplementary Examinations–March 2018

**DATA MINING & DATA WAREHOUSING
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1. a) Describe about transactional database.
- b) What is data mining?
- c) What is dimensionality reduction?
- d) Describe snowflake schema.
- e) What are the differences between data matrix and dissimilarity matrix?
- f) Define support and confidence.
- g) Define a frequent set.
- h) What is classification?
- i) List out methods to improve accuracy of classification.
- j) What is cluster analysis?
- k) Write a note on grid based clustering.

PART – B

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Describe different data mining functionalities. 8 M

b) Explain different data pre processing techniques. 8 M

3. Explain different OLAP operations in the multi dimensional data model. 16 M

4. a) Write Apriori algorithm for generating frequent item sets. 8 M

b) Differentiate between maximal and closed frequent item sets. 8 M

5. a) Explain about rule based classification. 8 M

b) What is meant by Bayesian classifier? How Bayes theorem is used for classification. 8 M

6. a) Write algorithm for DBSCAN clustering. 8 M

b) Describe agglomerative hierarchical clustering algorithm? 8 M