

M.Tech 1st Semester (CSE) CBCS Scheme**Examination, December-2017****Data Warehouse & Mining****Paper-MTCSE 21 C4***Time allowed : 3 hours]**[Maximum marks : 100*

Note : Attempt five questions in all, selecting one question from each section. Question No. 1 is compulsory.

1. (a) Differentiate between data warehouse and database. 5
- (b) What is association rule ? 5
- (c) What are types of data in cluster analysis ? 5
- (d) What is naive bayes method ? 5

Section-A

2. (a) Differentiate between the database, data warehouse, meta data, KDD, data mart. 10
- (b) Explain 3-tier data warehouse architecture. 10
3. (a) Discuss various operations which can be performed on multidimensional data cube. 10
- (b) What are the benefits of data warehouse ? 10

Section-B

4. Discuss and compare : 20
- (a) Direct hashing and pruning (DHP) algorithm.

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- (b) Dynamic item set counting (DIC) algorithm
- 5. (a) Discuss various categories of association rule. 10
- (b) Explain FP-growth algorithm. 10

Section-C

- 6. (a) Explain split algorithm based on information theory. 10
- (b) Explain KDD insurance risk assessment. 10
- 7. (a) Explain different S/W for association rule mining. 10
- (b) What is decision tree ? Discuss about decision tree construction algorithm. 10

Section-D

- 8. (a) What is clustering ? Discuss about various categories of clustering. 10
- (b) Discuss about partitional method of clustering with the help of example. 10
- 9. (a) What is locality and hierarchy in the web ? 10
- (b) What is Web Structure Mining ? 10