

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