

MCA/ M-12
DATA WAREHOUSING AND DATA MINING
Paper-MCA-402

Time allowed: 3 hours

M.M.: 80

Note: Attempt any five Questions, selecting at least one question from each Unit. Question No. 1 is Compulsory.

1. Discuss the following :

- (a) Distinguish between OLTP and OLAP.
- (b) Illustrate Drill down and Roll-up operation on Data cube.
- (c) Write a note on divisive clustering.
- (d) Name any six data mining tools for knowledge discovery
- (e) Write a note on Marker Basket Analysis.
- (f) Discuss Join and prune for association rule mining
- (g) Distinguish between No Coupling and Loose Coupling.
- (h) Lossless and lossy as data compression techniques

8*3=24

Unit-I

- 2. (a) What do you know about the time lines of data warehousing development?
(b) Define Data Warehouse. How fact and dimension tables are important for designing data warehouse schema. 7+7=14
- 3. Discuss in detail the steps for designing, construction and Implementation of Data warehouse. 14

UNIT-II

- 4. (a) Define data mining? Discuss data mining functionalities. Draw a sketch of integration from data warehousing to data mining.
(b) Why we preprocess the data? Discuss the strategies of data reduction. 7+7=14
- 5. (a) what defines a data mining task? Discuss the various data mining primitives.
(b) Discuss the methods for Class comparison and implementation. How Class comparison description will be presented? 7+7=14

UNIT-III

- 6. What do you understand by association rule mining in transactional databases? Discuss the generation of Aprior Algorithm. 14
- 7. What are the issues in Classification? State an example for Classification using prediction. 14

UNIT-IV

- 8. Explain Similarity and distance measures for clustering algorithms. Discuss density based method for clustering. 14
- 9. "We are data rich, but information poor". Comment on this statement with reference to real life applications; where data mining may be applied? 14