

Roll No. ....

Subject Code—2064-X

**M.C.A. EXAMINATION**

(Fifth Semester)

(Re-appear)

MS-31

**DATA WAREHOUSING AND DATA MINING**

*Time : 3 Hours*

*Maximum Marks : 100*

**Note :** Attempt any *Five* questions. All questions carry equal marks.

1. Explain the history of data warehouse and its importance in today's environment.
2. (a) Enumerate three classes of schemes that are popularly used for modeling data warehouses.  
(b) What are various steps taken for the efficient processing of OLAP queries ? Explain.

3. What is Data Mining ? Explain in detail importance and classification of data mining systems.
4. Write a priori algorithm for discovering frequent item sets for mining single dimensional boolean association rule.
5. Write short notes on the following :
  - (a) Data Cube Technology
  - (b) OLAP Technology.
6. Explain various presentation techniques used for visualization of discovered patterns.
7. What do you mean by tuning and testing ? How is it useful for data warehouse ?
8. Explain the following :
  - (a) Bayesian Classification
  - (b) Classification by decision tree induction.