

Roll No. ....

**Subject Code—6820**

**M.C.A (Fifth Year) EXAMINATION**

(5 Years Integrated Course)

(Main/Re-appear)

MCA-505

**DATA MINING AND DATA WAREHOUSING**

*Time : 3 Hours*

*Maximum Marks : 100*

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

1. (a) What factors made organization adopt the concept of data warehouse ?  
(b) Describe 3-tier data warehouse architecture.
2. Briefly differentiate the following with the help of key points and suitable examples :
  - (a) Data cleaning, data transformation and refresh

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2. Briefly differentiate the following with the help of key points and suitable examples :  
(a) Data cleaning, data transformation and refresh

- (b) Enterprise warehouse, data mart and virtual warehouse.
- 3. Explain various data mining applications in detail.
- 4. Discuss the back propagation algorithm for neural network-based classification of data.
- 5. Write the apriori algorithm for discovering frequent item sets for mining Single-dimensional Boolean Association rule and discuss various approach to improve its efficiency ?
- 6. Discuss the social impact of data mining.
- 7. Discuss essential features of a typical data mining query language like DMQL.
- 8. Write short notes on any *two* of the following:
  - (a) Rough Sets
  - (b) Mining Spatial Databases.