

**[4139] - 203**  
**M.Sc. (Sem. - II)**  
**COMPUTER SCIENCE**  
**CS - 203 : Data Mining and Data Warehousing**  
**(2011 Pattern)**

*Time : 3 Hours]*

*[Max Marks : 80*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

**Q1)** Answer any eight of the following :

**[8 × 2 = 16]**

- a) Discuss whether the following is a data mining task.  
"Monitoring the heart rate of a patient for abnormalities".
- b) What is meant by pattern?
- c) What is a concept hierarchy?
- d) List various components of a data warehouse.
- e) Give an example of classification using prediction.
- f) What do you mean by cross-validation?
- g) What are the potential applications of data mining?
- h) What is a cluster?
- i) How do we tokenize text?
- j) What is a hub?

**Q2)** Answer any four of the following :

**[4 × 4 = 16]**

- a) Explain steps involved in Knowledge Discovery.
- b) Explain the OLAP operations in multidimensional data model.
- c) What are the issues to be considered during data integration?
- d) Define Support and Confidence in Association rule mining. What is the purpose of Apriori algorithm?
- e) Explain the preprocessing steps applied to data to improve accuracy, efficiency and scalability of the classification or prediction process.
- f) Explain the method that mines the complete set of frequent itemsets without candidate generation.

**P.T.O.**

# Data Warehousing And Mining Previous Question Papers

**S. R. Jena, Dr. Isha Yadav, Dr. Aman  
Sharma**

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