

**M.Sc. (Part-II) Semester—IV (CBCS Scheme) Examination**  
**COMPUTER SOFTWARE**

**Paper—XV**  
**(Data Mining and Warehousing)**

Time : Three Hours]

[Maximum Marks : 80

**N.B. :—** (1) All questions are compulsory.

(2) Due credit will be given to neatness and adequate dimensions.

(3) Assume suitable data wherever necessary.

1. (A) What kind of patterns can be identified in data mining system ? Explain. 8  
(B) What are the major issues of data mining ? Explain. 8

**OR**

2. (A) What is data preprocessing ? Explain the concept of data cleaning. 8  
(B) Explain the various methods for handling missing values problem. 8  
3. (A) Explain the concept of analytical characterization. 8  
(B) State and explain the task primitives of data mining with example. 8

**OR**

4. (A) Explain the concept of data generalization. 8  
(B) Explain the background knowledge concept hierarchies with example. 8  
5. (A) Explain in brief the different methodologies of data mining. 8  
(B) Describe the data mining application for telecommunication industry. 8

**OR**

6. (A) Explain the data mining application in science and engineering. 8  
(B) How the security is maintained in data mining ? Explain. 8  
7. (A) Explain the typical architecture of data warehouse. 8  
(B) How are the concept hierarchies useful in OLAP ? Explain. 8

**OR**

8. (A) Explain the data warehouse design process. 8  
(B) What is multidimensional data mining ? Why it is important ? Explain. 8  
9. (A) Describe the various steps in end user application development. 8  
(B) How to manage existing data warehouse environment ? Explain. 8

**OR**

10. (A) Explain the different views for designing the data warehouse. 8  
(B) Describe the warehouse monitoring activity and its usefulness. 8

