

M.Sc. - I (Computer Science) (CBCS Pattern) First Semester
PSCSCT03 - Data Warehousing & SQL Paper-III

P. Pages : 2

Time : Three Hours



GUG/W/18/11144

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answers related to Questions.

1. Either

- a) Define Data Warehouse. Explain its Architectural strategies in detail. **8**
- b) Explain following in detail: **8**
 - 1) Building a Data warehouse.
 - 2) Tools for Data Warehouse.

OR

- c) Explain about OLTP and OLAP system. Explain types of OLAP in detail. **8**
- d) What do you mean by Managed Query Environment (MQE)? Explain it in detail. **8**

2. Either

- a) What is Data Mart? Explain about the metadata for a Data Mart in detail. **8**
- b) Explain following. **8**
 - 1) Tables in Data Mart.
 - 2) Security in Data Mart.

OR

- c) Define Data Mining. Explain the Algorithm for Data Mining from Data Warehouse. **8**
- d) Explain following. **8**
 - 1) Data segmentation.
 - 2) Link Analysis.

3. Either

- a) Explain about the SQL server storage Architecture and Data Engine. in detail. **8**
- b) What do you mean by SQL Basis object? Explain different data types of SQL server. **8**

OR

- c) Explain about Data Definition Language and Data manipulation Language in SQL server. **8**
- d) Explain how stored procedures are used in SQL server by giving suitable example. **8**

4. Either
- a) What do you mean by Data Integrity control? Explain about different constraints in SQL server. 8
 - b) Write a program to demonstrate the concept of permission in SQL server. 8

OR

- c) What is concurrency control? Explain how triggers work use sample example. 8
 - d) Explain following. 8
 - 1) Back up Types.
 - 2) Restore Database.
5. Solve all the questions.
- a) What are the crucial Decisions in Designing a Data warehouse? Explain. 4
 - b) Write a note on predictive Modeling. 4
 - c) Write a note on Scalar operators in SQL server. 4
 - d) Write a note on Transaction logs. 4
