

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

P. Pages : 1

Time : Three Hours



GUG/W/22/11144

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagrams wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.

Either:

1. a) What is data warehouse? Explain its characteristics. **8**
b) Describe in detail various strategies of data warehouse architecture. **8**

OR

- c) What are the various data models used in designing a warehouse? **8**
b) What is Meta data and its role in data warehouse? **8**

Either:

2. a) Explain Database segmentation in detail. **8**
b) Explain Data Mining in detail. How we propagate from Data warehouse to data mining. **8**

OR

- c) Explain the concept of database Segmentation in detail. How it is useful in Data mining. **8**
d) Explain Data mining Algorithm. What are the steps required to move from data warehouse to mining? **8**

Either:

3. a) Explain various Data Types in SQL in detail. **8**
b) What is Data Manipulation Language? Explain various commands of DML with proper example. **8**

OR

- c) What are Transact-SQL functions and user defined functions. **8**
d) Explain various SQL functions with example. **8**

Either:

4. a) Explain security Architecture in detail. **8**
b) Explain the concept of implementing permission in SQL server. **8**

OR

- c) What is Backup and Recovery? Explain. **8**
d) Explain the use of transaction logs. **8**

5. Attempt all the questions.
- a) Explain Manage Query Environment. **4**
 - b) Explain in brief Link Analysis. **4**
 - c) Differentiate between DDL and DML? **4**
 - d) What do you mean by DML Trigger? Explain. **4**
