

M.Sc. (Computer Science)-I First Semester Old  
**1MSC4 - Data Warehousing and SQL Server Paper-IV**

P. Pages : 1

Time :Three Hours



**GUG/W/18/2876**

Max. Marks : 80

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

1. Either
- a) Explain in detail various strategies of data warehouse architecture. **8**
  - b) What are the various important decisions to be taken in designing a data warehouse? **8**
- OR**
- c) What are the various data models used in designing a warehouse. **8**
  - d) Explain managed Query Environment in detail. **8**
2. Either
- a) What are the various software components for a Data Mart? Explain in detail. **8**
  - b) Explain various tools for data mining. **8**
- OR**
- c) Explain the concept of database Segmentation in detail. How it is useful in Data mining. **8**
  - d) Explain the various tasks or functions involved in data mining. **8**
3. Either
- a) What are the various scaler operators of SQL? Give one example of each. **8**
  - b) What is System Database? Explain the SQL Server Data storage architecture. **8**
- OR**
- c) What are Transact- SQL functions and user defined functions. **8**
  - d) Explain stored procedure with suitable example. **8**
4. Either
- a) Define constraint. Explain various types of constraints with suitable example. **8**
  - b) Explain the concepts of implementing permission in SQL server. **8**
- OR**
- c) What is Backup and Recovery? Explain. **8**
  - d) Define replication? Explain different method for replication. **8**
5. Solve all the questions.
- a) Write a short note on Data modelling. **4**
  - b) Define Meta-Data and Data Mart. **4**
  - c) Differentiate between DDL and DML? **4**
  - d) What do you mean by locking? Explain. **4**

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