

M.Sc. - I (Computer Science) (NEP Pattern) Semester-II
02MSCCS02 - Paper-II : Data Warehouse and SQL

P. Pages : 2

Time : Three Hours



GUG/W/24/15360

Max. Marks : 80

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- 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) Describe in detail various strategies of data warehouse architecture. 8
- b) Explain: 8
 - i) Metadata
 - ii) OLTP

OR

- c) Explain the Crucial Decisions in Designing a Data Warehouse in detail. 8
- d) What is Meta data and its role in data warehouse? 8

Either:

2. a) Explain Data Mining in detail. How we propagate from Data warehouse to data mining. 8
- b) Explain the Software Component for a Data Mart in detail. 8

OR

- c) What are the various software tools for a Data Mart? Explain in detail. 8
- d) Explain the concept of database segmentation in detail? How it is useful in data mining. 8

Either:

3. a) Explain SQL server data storage architecture. 8
- b) What are various scalar operators of SQL? Give example of each. 8

OR

- c) Explain the following components- 8
 - i) Data Definition Language
 - ii) Data Manipulation Language
- d) What are Transact-SQL functions and user defined functions. 8

Either:

- 4. a) Explain the concept of implementing permission in SQL server. 8
- b) Explain in detail Backup Types. 8

OR

- c) Define replication. Explain different methods for replication. 8
- d) Explain security architecture managing user security. 8

5. Attempt all the questions.

- a) Explain Manage Query Environment. 4
- b) Explain in brief Link Analysis. 4
- c) Write a short note on System Databases in SQL server. 4
- d) What do you mean by DML Trigger? Explain. 4
