

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

P. Pages : 2

Time : Three Hours



**GUG/S/25/15360**

Max. Marks : 80

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

**Either:**

1. a) Explain Top-down and bottom-up architectural strategies of data warehouse. 8
- b) Write a note on: 8
  - i) OLTP
  - ii) OLAP.

**OR**

- c) Explain performance consideration of data warehouse. 8
- d) Explain managed Query environment in detail. 8

**Either:**

2. a) Explain following. 8
  - i) Security in Data mart.
  - ii) Component of Data mart.
- b) Write a detail note on star schema and snowflake schema. 8

**OR**

- c) Describe steps of Data mining in detail. 8
- d) Write a detail note on Link-Analysis. 8

**Either:**

3. a) Explain Data manipulation Language commands with syntax and example. 8
- b) Write a detail note on sql server data storage architecture. 8

**OR**

- c) Describe Data Engine in detail. 8
- d) Explain with syntax and example. 8
  - i) Create Command.
  - ii) Alter command.
  - iii) Drop command.

**Either:**

- |           |    |  |          |
|-----------|----|--|----------|
| <b>4.</b> | a) | What do you mean by Data Integrity? Explain types of constraints with example. | <b>8</b> |
|           | b) | Explain implementing permission in SQL server.                                 | <b>8</b> |

**OR**

- |           |    |  |          |
|-----------|----|--|----------|
|           | c) | Describe Transaction architecture in SQL server. | <b>8</b> |
|           | d) | Explain different types of Backup in detail.     | <b>8</b> |
| <b>5.</b> |    | Solve all the questions.                         |          |
|           | a) | Explain data content of Data warehouse.          | <b>4</b> |
|           | b) | Write a note on tables in data mart.             | <b>4</b> |
|           | c) | Explain stored procedure in short.               | <b>4</b> |
|           | d) | Explain replication method in brief,             | <b>4</b> |

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