

(Time: 3 Hrs)

Marks: 80

N.B. : 1. Question no. 1 is **compulsory**.

2. Solve any **Three** questions out of remaining **Five** questions.

- Qu-1 Attempt the following.
- a) Event Condition Action (ECA) model (Triggers) in SQL with suitable example. 5
  - b) Explain “Write Ahead Logging.” 5
  - c) Explain “Object Query Language (OQL)” in short. 5
  - d) OLAP vs OLTP 5
- Qu-2
- a) State the role of metadata and classification of Metadata for Data Warehouse. 10
  - b) Explain Stored Procedures in SQL with suitable example. 10
- Qu-3
- a) Explain Factless Fact Table with suitable example. 10
  - b) Explain Mandatory Access Control and Role-Based Access Control. 10
- Qu-4
- a) Explain Star Schema with suitable example. 10
  - b) Explain ARIES with suitable example. 10
- Qu-5
- a) Explain Dynamic Multilevel Indexes Using B+-Trees. 10
  - b) Explain Query Processing in Distributed Databases. 10
- Qu-6 Write short note on
- a) Single-Level Ordered Indexes. 5
  - b) Concurrency Control in Distributed Databases. 5
  - c) Data Marts. 5
  - d) ROLAP 5

\*\*\*\*\*