



**PAY-161100020311**

Seat No. \_\_\_\_\_

**M. B. A. (Sem. III) (CBCS) Examination**

**October / November - 2018**

**Database Management**

Time : 3 Hours]

[Total Marks : 70

**Instruction** : All questions carry equal marks.

1 Explain two-phase locking protocol in detail.

**OR**

1 Explain Insert, Update and Delete expressions in SQL by giving examples for each. Write basic domain types used in SQL.

2 (a) Explain the ACID properties in Database system.

(b) What are SQL constraints ? Explain.

**OR**

2 (a) What is Data Base Administrator ? Discuss the functions of DBA.

(b) Explain transaction and data server.

3 How to perform rollback, commit and check pointing operations on transactions ? Give examples.

**OR**

3 What is Entity – Relationship model ? Explain entity sets, Relationship sets and attributes in Entity – Relationship model.

4 (a) Write the formats of Create, Alter and Drop commands in SQL.

(b) Explain Data warehousing and data mining.

**OR**

4 (a) Explain instances and schemas in Databases.

(b) What is Normalization in DBMS ? Explain.

5 Write short notes on : (any two)

(1) Distributed database systems.

(2) Object relational database model.

(3) Data abstraction.

(4) Deadlock.