

Roll No.

Exam Code : J-19

Subject Code—0325

M.B.A. EXAMINATION

(Batch 2018 Onwards for Lateral Entry)

(Fourth Semester)

RDBMS

ITM-421

Time : 3 Hours

Maximum Marks : 70

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit in addition to compulsory Q. No. 1. All questions carry equal marks.

1. (a) What is a Database Schema ?
- (b) Define PCR type in hierarchical data model.
- (c) What is a Relational Database ?
- (d) Explain the concept of Null values in SQL.

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- (e) Describe the types of locks used in concurrency control.
- (f) Explain ALTER TABLE command.
- (g) What is Functional Dependency ?

7×2=14

Unit I

- 2. What is DBMS ? List and explain advantages of using the DBMS approach. **14**
- 3. Discuss the conventions for displaying an ER Schema as an ER Diagram. **14**

Unit II

- 4. Discuss the various constraints on set membership and the cases in which each constraints should be used in network model. **14**
- 5. What is Normalization ? How is it useful ? Explain the normal form based on the concept of transitive dependency. **14**

Unit III

- 6. How are queries based on joins expressed in SQL ? Explain the various join conditions. **14**
- 7. What is the use of constraints ? What are different types of constraints that can be specified in SQL ? Explain with suitable examples. **14**

Unit IV

- 8. What are the security policies that should be established by an organization to prevent unauthorized access of its database ? **14**
- 9. Write short notes on the following :
 - (a) ODBC Connectivity
 - (b) Properties of a Transaction. **14**