

Roll No.

Subject Code—8203-X

M.B.A. EXAMINATION

(Fourth Semester)

(Re-appear Prior to Batch 2009)

ITM-422

**APPLICATION DEVELOPMENT
USING ORACLE**

Time : 3 Hours

Maximum Marks : 100

Section A

Note : Attempt any *Seven* questions. **7×7=49**

1. In context of relational model, define each of the following concepts :

- (i) Relation
- (ii) Attribute
- (iii) Tuple
- (iv) Domain.

2. Discuss the reason for converting SQL queries into relational algebra queries before optimization is done.
3. Differentiate between online and offline backups.
4. What are the various operators available in Transact-SQL ? Explain their working and precedence.
5. What is user-defined exception ? Explain it with an example.
6. Explain how to maximize/minimize a Window in forms.
7. Differentiate between CALL_FORM, NEW_FORM and OPEN_FORM.
8. What are different data types supported by SQL in Oracle ?
9. Difference between restoring and recovering.
10. What are the characteristics of relation that makes it differ from ordinary table and file.

Section B

Note : Attempt all the questions. $3 \times 17 = 51$

11. Explain the working of SQL commands with suitable example :

CREATE, INSERT, DELETE, GRANT, SELECT.

Or

What is Oracle forms and why do we need it ? Explain how to iterate through items and records in a specified block in oracle form.

12. What is a constraint ? What are its various levels ? What are various constraints used in SQL ? Explain briefly.

Or

- (a) Explain the concept of normalization. Why do we need normalization ?
- (b) Define the terms database and database system. What are the elements of database system ? Explain briefly.

13. What is a Trigger ? Explain working Trigger with syntax. What are the various types of PL/SQL Triggers ? Explain briefly.

Or

What strategies are available for backing-up an oracle database ? Differentiate between online and offline backups.