

BCA

IV Sem

Roll No.

Total No. of Pages : 2

PC 10625-M

D-26/2056

**RELATIONAL DATABASE MANAGEMENT SYSTEM
WITH ORACLE-225**

Semester-IV

Time Allowed : Three Hours]

[Maximum Marks : 75

Note:— Attempt *two* questions each from Sections A and B and the entire Section C.

SECTION-A

1. Define RDBMS. What are the features of RDBMS ? What are the advantages of RDBMS over DBMS ? Explain. 15
2. Define and distinguish between sequential and index file allocation techniques. 15
3. Define concurrency. How concurrency is controlled using lock based protocols ? Explain. 15
4. (a) Define two phase locking protocol. 5
(b) Explain timestamp ordering protocol. 5
(c) How deadlocks can be prevented ? 5

SECTION-B

5. (a) What can be the reasons of disk failure ? Explain. 5
- (b) What do you mean by log based recovery ? 5
- (c) Distinguish between immediate update and deferred update. 5
6. Explain the features of different languages used in RDBMS. 15
7. (a) How primary key, unique key and foreign key are defined in Oracle ? Explain giving examples. 7.5
- (b) How pattern matching is done in Oracle SQL ? Explain. 7.5
8. Write the methods of creating, applying and dropping triggers in Oracle. 15

SECTION-C

9. All questions are compulsory :
- (a) Define indexed file organization technique.
- (b) Define Thomas' write rule.
- (c) What are check points ?
- (d) Write the procedure of grouping table data in Oracle.
- (e) How dates are manipulated in Oracle ? 15