

Exam. Code : 103204

Subject Code : 1106

B.A./B.Sc. Semester—IV

COMPUTER APPLICATION

(Relational Database Management System and Oracle)

Time Allowed—3 Hours] [Maximum Marks—75

Note :— (1) Attempt **FIVE** questions in all by selecting at least **ONE** from each of Units I, II and III.

(2) All questions carry equal marks.

UNIT—I

1. (a) Define RDBMS System. Explain its advantages and limitations over DBMS. 2+6
(b) Draw difference between DDL and DML in detail. 7
2. (a) Explain various SQL operators and their use with examples. 8
(b) Why Normalization is required ? How is it implemented to remove various kinds of anomalies and dependencies ? 7
3. (a) Define database model ? Explain Hierarchical and Network models in detail. 4+4
(b) Explain any three DDL commands of SQL. 7

UNIT—II

4. (a) Explain any three operations performed through data control language. 8
- (b) What is query ? How subqueries are designed and accorded ? Explain in detail. 7
5. (a) Explain any four aggregate functions with examples. 8
- (b) Explain NVL, Translate and field concatenation functions in detail. 7
6. Explain :
- (a) Select group by having clause. 3
- (b) RPAD and LPAS. 3
- (c) Add-months and month between. 3
- (d) Substitution variables. 3
- (e) Sgot and Mod. 3

UNIT—III

7. Explain following Reporting features using SQL Plus :
- (a) Formatting columns. 3
- (b) Break. 3
- (c) Multiple columns with different spacing. 3

- (d) Page size an Line size. 3
- (e) Compute. 3
8. (a) Draw relationship between SQL and PL/SQL in detail. 8
- (b) Explain PL/SQL Block structure through example. 7