

**SECTION—C**

5. Discuss object oriented features of Oracle 10g used for the development of DBMS. 15
6. Discuss the basic structure of DDL AND DML to demonstrate the working of SQL script. 15

**SECTION—D**

7. (a) What are types of cursors ? Explain the working of implicit cursor by taking some suitable examples. 8
- (b) Explain the basic structure used for a procedure using an example code snippet to justify the answer. 7
8. Explain the following concepts for PL/SQL :
- (a) Database triggers 8
- (b) Explicit cursor. 7

**Exam. Code : 103205**  
**Subject Code : 1170**

**B.A./B.Sc. 5<sup>th</sup> Semester**  
**COMPUTER SCIENCE**

**(Database Management System & Oracle)**

Time Allowed—3 Hours] [Maximum Marks—75

**Note :—** Attempt *five* questions in all, selecting at least *one* question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

**SECTION—A**

1. (a) Discuss the components of database management system. 8
- (b) Describe the features of normalisation in detail. 7
2. Explain the following for DBMS :
- (a) Relational Algebra 8
- (b) Role of Network Model. 7

**SECTION—B**

3. What is meant by concurrency control ? Discuss the role of locks in detail. 15
4. Explain the following concepts :
- (a) Database Security 8
- (b) Expert Systems. 7