

Exam. Code : 103205
Subject Code : 1169

B.A./B.Sc. 5th Semester
COMPUTER SCIENCE
(Database Management System & Oracle)

Time Allowed—3 Hours] [Maximum Marks—75

Note :—There are **EIGHT** questions. Candidates are required to attempt any **FIVE** questions. All questions carry equal marks.

1. What is database management system (DBMS) ? Discuss the architecture and levels of DBMS. 15
2. Explain the differences between network and hierarchical model. 15
3. Why is concurrency control required for transaction management ? Explain various types of concurrency control protocols. 15
4. Define integrity. What are various types of integrity constraints ? Explain giving examples. 15
5. Explain :
 - (a) The client server architecture of Oracle 8
 - (b) What are various DCL statements ? Describe their usage. 7

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6. Explain :
- (a) Oracle offers several date related functions. Discuss some of them with proper syntax. 8
 - (b) How pattern matching is done in Oracle SQL ? 7
7. Define and distinguish between BEFORE and AFTER triggers. Explain them by giving relevant examples. 15
8. What is a cursor in SQL ? Explain its type. How to create explicit cursor in SQL ? 15