

Exam. Code : 103205

Subject Code : 1194

B.A./B.Sc. Semester—V

COMPUTER SCIENCE

(Database Management System & Oracle)

Time Allowed—3 Hours] [Maximum Marks—75

Note :— Attempt any FIVE questions. All questions carry equal marks. The students can use only non-programmable and non-storage type calculator.

1. Define Database Management System. What are the advantages of DBMS over traditional file processing system ? Explain. 15
2. Define data independence. What are the various types data independence ? How mapping is performed between different levels of database architecture ? Explain. 15
3. What are the similarities and differences between relational algebra and relational calculus ? What are the different types of relational calculus ? Discuss in detail. 15
4. Write short notes on the following :—
 - (a) Distributed Databases. 7.5
 - (b) Object Oriented Databases. 7.5

5. What are various DDL commands available in SQL ?
Explain any 5 commands in detail with their purpose and syntax. 15
6. What is a sequence ? What are its uses ? How we create a sequence ? Explain with example. How do you alter a sequence ? 15
7. What are Cursors ? Differentiate between implicit and explicit cursors. Give examples of Implicit and Explicit Cursors. 15
8. How functions are different from procedures ? Give the syntax to create stored procedure. Explain with suitable example. 15