

K-18/2050
RELATIONAL DATABASE MANAGEMENT SYSTEM AND ORACLE -
124
SEMESTER-II

TIME ALLOWED 2 Hrs

M.M.70

NOTE; Attempt any four questions. All questions carry equal marks.

1. What is database management system? Explain the characteristics of DBMS.
2. a) What are various symbols used for E-R diagram?
b) Design an E-R diagram for college library.
3. What is relational algebra? Explain basic operators of relational algebra.
4. What are various normal forms of database design? Explain 1NF, 2NF and 3NF.
5. What are database security issues? Explain the methods to implement database security.
6. What is database concurrency? What are the problems arising out of concurrent databases?
7. Write note on: Data mining, data warehouse, and multimedia database.
8. What are various database objects in ORACLE? Write the function of each object.
9. a) Write responsibilities of DBA.
b) What is database schema?
c) What is logical data independence?
d) What is referential integrity?
e) Define candidate key.
f) What is join dependency?
g) What are transaction properties?
h) What is database recovery?
i) What is spatial database?
j) Write syntax of SQL statement to create a table.