

(Please write your Exam Roll No.)

Exam Roll No.

END TERM EXAMINATION

FIFTH SEMESTER [MCA] DECEMBER-2013

Paper Code: MCA 325

*Subject: Distributed DBMS &
Object Oriented Databases*

Time : 3 Hours

Maximum Marks : 60

Note : Attempt any five questions.

- Q1.** a) Give the advantage and disadvantages of Object Oriented Databases. (6)
b) Compare and contrast between distributed database and centralized database. (6)
- Q2.** Briefly explain (any 3): (4*3)
a) Spatial Databases
b) Multimedia Databases
c) Temporal Databases
d) Distributed Databases
- Q3.** a) Explain how Distributed Query optimization is achieved in Oracle database. (6)
b) Write about horizontal and vertical fragmentation. (6)
- Q4.** a) Discuss in detail about query processing in Distributed Databases. (6)
b) Explain the following : (3*2)
1. Multiples copies of data
2. Transaction Failures
- Q5.** a) Explain the main factors you need to consider when setting user accounts and roles. (6)
b) Using a relevant example explain the concept of Remote Procedure Call in Distributed Database. (6)
- Q6.** a) Briefly explain how two-phase commit mechanism ensures data integrity. (6)
b) Explain the properties of transactions. (6)
- Q7.** a) How views are important in database. (4)
b) What is Selective Replication and Complete Replication. (4)
c) Explain Distributed data dictionary management. (4)
- Q8.** a) What are the various formats of communication.Explain them in brief. (6)
b) Briefly explain different types of clock synchronization algorithms. (6)
