15116

3 Hours / 100 Marks Seat No. ☐☐☐☐☐☐☐

Instructions – (1) All Questions are *Compulsory*.

(2) Answer each next main Question on a new page.

(3) Figures to the right indicate full marks.

(4) Assume suitable data, if necessary.

(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:** **20**

a) Explain GRANT and REVOKE commands.

b) Write a short note on distributed database.

c) List down benefits of three tier application.

d) What is database backup? State its importance.

e) Explain physical and logical structure of oracle database architecture.

f) What is data warehouse? State its use.

g) What are the characteristics of mobile computing?

2. **Attempt any TWO of the following:** **16**

a) Write short note on:

   (i) Redo log buffers

   (ii) Shared pool

b) With neat diagram explain client-server architecture.

c) What are the different recovery techniques available? Explain any two.

Marks

3. **Attempt any TWO of the following:** **16**

a) Explain the architecture of mobile databases.

b) Write a query to create a user and give a permission to connect database and authenticate for DDA commands.

c) Explain the following terms:

(i) logging

(ii) check points

w.r.t. to recovery.

4. **Attempt any TWO of the following:** **16**

a) Explain steps for creating table spaces with example.

b) Explain the following:

(i) Multimedia database

(ii) Mobile database

c) Explain recovery in multi-database system.

5. **Attempt any TWO of the following:** **16**

a) Explain about digital libraries with its components.

b) Explain the architecture of data warehouse.

c) Write a procedure for creating a DBA user with example.

6. **Attempt any TWO of the following:** **16**

a) Explain the following:

(i) System monitor

(ii0 Database writer

b) What is world wide web technology? Give advantages and disadvantages of web databases.

c) Explain database in two tier architecture.

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