

17631

21718

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) 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) What is DBMS ? State benefits of DBMS.
- (b) What is Program Global Area (PGA) ?
- (c) Explain Oracle System table space.
- (d) What do you mean by object privileges ?
- (e) Explain causes of failure of DBMS.
- (f) Explain advantages of Web Databases.
- (g) What is mobile databases ? Write characteristics of mobile databases.

2. Attempt any FOUR :**16**

- (a) Explain System Global Area (SGA).
- (b) Explain distributed DBMS.
- (c) Explain threats to Database Security.
- (d) What is Digital Library ? Explain need of Digital Library.
- (e) What are key benefits of three-tier application ?
- (f) Explain any two data mining techniques.

3. Attempt any FOUR :**16**

- (a) Explain Role based architecture in DBMS with suitable example.
- (b) Explain any four features of multimedia databases.
- (c) Explain need for data warehousing.
- (d) Explain shadow paging recovery technique.
- (e) What is Transaction log ? Give the role of transaction log in recovery.
- (f) Explain two-tier architecture of Database.

4. Attempt any TWO :**16**

- (a) Draw and explain detailed architecture of Oracle DBMS and its components.
- (b) What are components of digital library ? Explain in detail.
- (c) What is client server architecture ? Explain client server architecture with partitioning on application.

5. Attempt any TWO :**16**

- (a) What are various background processes of Oracle Server Architecture ?
- (b) What are various discretionary access control ?
- (c) What are Catastrophic failure ? How to obtain recovery from such failure ?

6. Attempt any FOUR :**16**

- (a) What are System Privileges ?
 - (b) Draw the architecture of mobile databases.
 - (c) Write any four characteristics of data warehouse.
 - (d) Explain Data Mining applications.
 - (e) What are key consideration in Three-tier architecture ?
 - (f) How recovery of data is done in multi-database system ?
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