

17631

21819

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) 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 oracle database architecture.
 - b) Define DBMS and explain benefits of DMBS.
 - c) What is meant by DBA? State the responsibilities of DBA?
 - d) Explain goals of database security?
 - e) Explain advantages and disadvantages of web database?
 - f) Explain any four features of multimedia database?
- 2. Attempt any FOUR of the following: 16**
- a) What are the catastrophic failures? How to recover from such failures.
 - b) Explain mobile databases?
 - c) Define data mining? Explain techniques of data mining?
 - d) Explain two tier architecture of DBMS?
 - e) Explain database recovery?
 - f) What do you mean by parallel DBMS?

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- 3. Attempt any FOUR of the following:** **16**
- a) Explain object privilege.
 - b) Explain four components of digital library.
 - c) Explain internet database in details.
 - d) Explain client server architecture.
 - e) What is database backup?
 - f) Explain data mining application.
 - g) Explain the specific characteristics of the internet database.
- 4. Attempt any FOUR of the following:** **16**
- a) List characteristics of web database.
 - b) Explain four benefits of three-tire architecture.
 - c) Draw and explain architecture of mobile database.
 - d) What are the check points?
 - e) Explain immediate update of database.
 - f) Explain role of metadata.
- 5. Attempt any TWO of the following:** **16**
- a) List and explain components of web applications.
 - b) Explain importance of XML in web database.
 - c) Explain different causes of failure in DBMS.
- 6. Attempt any FOUR of the following:** **16**
- a) Explain different access control methods of database.
 - b) Draw and explain architecture of oracle instance.
 - c) List data mining techniques and explain one techniques.
 - d) What do you mean by data warehousing.
 - e) Explain the shadow paging technique used for recovery of the DBMS.
 - f) Explain three-tire architecture of DMS?
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