

Total No. of Questions : 12]

SEAT No. :

P1783

[4859]-184

[Total No. of Pages : 3

B.E. (Information Technology)
a-ADVANCED DATABASE MANAGEMENT
(2008 Course) (Semester-I) (Elective-I)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) *Answer Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6 from Section-I and Q. 7 or Q. 8, Q. 9 or Q. 10, Q. 11 or Q. 12 from Section-II.*
- 2) *Figures to the right indicates full marks.*
- 3) *Neat diagrams must be drawn whenever necessary.*
- 4) *Assume suitable data, if necessary.*
- 5) *Answers to the two sections should be written in separate books.*

SECTION-I

- Q1)** a) What do you mean by cursors? Explain any one type of cursor in detail with suitable example. [8]
- b) Explain different database objects in detail. [8]

OR

- Q2)** a) Write a PL/SQL code block for inverting number 1678 to 8761. [6]
- b) Explain the concept of Embedded SQL. [8]
- c) What do you mean by Savepoint. [2]

- Q3)** a) Explain with neat and clean diagram transactional workflows. [8]
- b) What do you mean by Main Memory databases. [8]

OR

- Q4)** a) Explain in detail transaction workflow monitors with suitable diagram. [8]
- b) Explain the following: [8]
- i) Reference types in SQL.
 - ii) Long duration transactions.

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- Q5)** a) Explain in detail different concurrency control protocol. [10]
b) Write difference between OO Vs OR features. [6]
c) Explain with example concept of table inheritance. [2]

OR

- Q6)** a) Write short note on persistent programming languages. [8]
b) What do you mean by DTD? Describe a DTD with suitable example for an XML. [10]

SECTION-II

- Q7)** a) Write in detail about Dimensionality Modeling. [8]
b) Short note on multidimensional Data and how this data can be represented? [8]

OR

- Q8)** a) Explain Apriori algorithm with suitable example. [12]
b) Explain in detail about concept of data mart. [4]

- Q9)** a) Explain K-means algorithm with suitable example. [12]
b) Explain in detail about integrity threats and defense mechanism in DBMS. [6]

OR

- Q10)** a) What do you mean by concept of data mining? Explain the process of Knowledge discovery with suitable architectural diagram. [12]
b) Write note on OLAP Benchmark. [6]

Q11)a) With neat and clean diagram explain architecture of data warehouse along with Different Data flows. **[12]**

b) Write note on predictive modeling. **[4]**

OR

Q12)Write short note on following: **[16]**

- a) PL/SQL security.
- b) Statistical database audit.
- c) DW tools and techniques.
- d) Data warehouse design using Oracle.

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