

4364-794

**Advance Database Management - 414443 (2008 Course)**  
**BE (IT) May 2013**

Time: 3 hours

Max Marks: 100

**Section I**

- Q. 1 a What is PL/SQL? What is the need of PL/SQL? Can you trap exceptions in PL/SQL? 8  
Explain your answer.  
b Which control structures are allowed in PL/SQL? 8
- OR
- Q. 2 What is the difference between PL/SQL functions and PL/SQL procedures? 16  
Demonstrate the use of IN, OUT and IN-OUT.
- Q.3 a Explain different types of locks. 8  
b Explain main-memory databases. 8
- OR
- Q. 4 a Explain the working of Timestamp concurrency control. 8  
b What are compensating transactions? 8
- Q. 5 a What are XML Schemas? Write a sample XML schema. 9  
b What are persistent objects? Explain different mechanisms for making objects persistent. 9
- OR
- Q. 6 a How is inheritance implemented in SQL? 9  
b Explain applications of XML. 9

**Section II**

- Q. 7 a Explain the following: 18  
Extraction, summarized data, Metadata, Data sources
- OR
- Q. 8 a Explain how Oracle implements data warehouse. 9  
b Explain data warehouse with the help of block diagram. 9
- Q. 9 a What is Bayes theorem? Explain Naïve Bayes theorem. 8  
b What is Apriori property? Explain pruning and joining. 8
- OR
- Q. 10 Write short notes on: (any two) 16  
a OLAP Operations  
b Classification  
c Clustering
- Q. 11 a Write commands for granting and revoking privileges. Explain grant with grant option. 8  
b Write a note on Database threats. 8
- OR
- Q. 12 a Explain authorization and authentication. 8  
b How will encryption and decryption ensure database security? 8