END TERM EXAMINATION
THIRD/FIFTH/NINETH SEMESTER [MBA] DECEMBER 2011

Paper Code: MS 239/MSP 329/BMS 539  Subject: Database Management Systems

Time : 3 Hours  Maximum Marks : 60

Q1. Explain the terms:
   (a) DBMS Architecture
   (b) Conversion of E-Schema into Tables
   (c) Codd’s Rules
   (4x3=12)

Q2. Explain the following stating limitations of each.
   (a) Hierarchical Vs. Network DBMS
   (b) OODBMS Vs ORDBMS
   (6x2=12)

Q3. (a) What are mapping constraints? Explain.
    (b) Explain the concept of a view in SQL. What kinds of problems are faced while updating a view?
    (5)  (7)

Q4. Draw an ER diagram for University System with entities- students, teachers and courses. Write all assumptions made in this behalf. (12)

Q5. (a) What is SQL? How it differs from PL/SQL? What is the basic form of a SQL? What is the basic form of a SQL query?
    (b) Distinguish between WHERE clause and HAVING clause.
    (c) What are triggers? Write a trigger to update the a/c balance whenever the money is withdrawn or deposited from the account of a customer.
    (4)  (3)  (5)

Q6. (a) How can we create a table in PL/SQL block and insert records into it? Is it possible by some procedure or function? Explain using an example.
    (b) In PL/SQL, can commit, rollback, savepoint be used in database triggers? Is yes explain how and if no what give reasons.
    (6)  (6)

Q7. (a) What are various transaction state? Explain.
    (b) Explain the concept of concurrency control in databases. How are they resolved? Explain.
    (5)  (7)

Q8. Explain the following:
   (a) Normalization
   (b) Functional Dependencies
   (c) Multi-valued dependencies
   (4x3=12)

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