GAV-3352   Seat No._____

B. C. A. (Sem. III) Examination

November / December – 2013

BCA - 302 : Advance Database Management System

(New Course)

Time : 3 Hours]   [Total Marks : 70

Instruction : Draw figures when required.

1. (a) Do as directed :   **6**

    (i) Only list out the DML and DDL commands.

    (ii) Define : Self join.

    (iii) What is the use of subqueries ?

    (iv) What is the use of Rename operation ?

    (v) In view of "table" what is the use of "delete" and "drop" ?

    (vi) What is use of group by clause ?

  (b) Attempt following : (any **two**)   **12**

    (i) Give the use of set operators and explain all set operator with example.

    (ii) What is constraint ? Explain types of constraint with example.

    (iii) What are the categories of SQL command ? Discuss equijoin and outerjoin with example.

2 (a) Do as directed :   5
       (i) List out the proper requirements needed
            to design a trigger.
       (ii) What is primary index ?
       (iii) What is view in SQL ?
       (iv) Write down advantages of exception
             handling.
       (v) What is cursor ? List out the types of
            cursor.
   (b) Attempt following : (any **two**)   12
       (i) What is use of cursor ? Explain types of
            cursor with their attributes and Give
            example of each.
       (ii) What is trigger ? Explain different types
             of trigger and give the difference between
             trigger and procedure.
       (iii) Write a short note on sequences.

3 (a) Do as directed :   5
       (i) What is full form of : ROLAP, OLTP ?
       (ii) What is operational data ?
       (iii) What is advantage of datamart ?
       (iv) Why database design is important ?
       (v) What is data warehouses ?
   (b) Attempt following : (any **two**)   12
       (i) Define : OLTP and OLAP. Give the
            difference between both OLTP and OLAP
            systems.
       (ii) Write down the short note on : Data
             Mining.
       (iii) What is data cubes and what is the
              usages of datacubes in data
              warehousing ?

4   (a)   Do as directed :   **6**
         (i)   What is recovery log ?
         (ii)   Define term : Rollback
         (iii)   Deadlock
         (iv)   Define term : Data encryption.
         (v)   Define term : Distributed database.
         (vi)   What is isolation ?

   (b)   Attempt following : (any **two**)   **12**
         (i)   Explain ACID properties of transactions in detail.
         (ii)   Explain the twelve objectives of distributed databases.
         (iii)   What is concurrency ? What problems are associated with concurrency ? Explain them in brief.

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