KA-3732-R
Second Year B.C.A. (Sem. III) Examination
October/November – 2012
302 : Relational Database Management System
(Old Course)

Time : Hours]   [Total Marks : 70

Instruction :

નીચે દર્શાવેલ ➡ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ➡ signs on your answer book.

Name of the Examination :

➡ **S. Y. B.C.A. (SEM. 3)**

Name of the Subject :

➡ **302 : RELATIONAL DATABASE MANAGEMENT SYSTEM(OLD)**

➡ Subject Code No. : | 3 | 7 | 3 | 2 | ➡ Section No. (1, 2,.....) : **Nil**

Seat No. :

Student's Signature

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1 Answer the following in short: [Any Five]   **[10]**
   1) What are the functionalities of ROLLBACK statement?
   2) List out restrictions on updatable view.
   3) What is the difference between Truncate Table and Drop Table?
   4) When LOGIN_DENIED and ZERO_DIVIDE exception is raised?
   5) What is the use of WITH CHECK OPTION in view?
   6) What is Instances and Schema?
   7) What do you mean by AUTONOMUS TRANSACTION?

2 Answer the following: [Any Two]   **[14]**
   1) What is Relational Database Management System? Explain any three Codd's Rules in detail.
   2) What is DBA? What are the basic duties of DBA?
   3) Write note on the PL/SQL Block structure. Discuss any two PL/SQL data types.

3 Answer the following: [Any Two]   **[14]**
   1) What are the Range searching and pattern matching operators in Oracle? Explain with appropriate example.
   2) Explain Sequences in detail with proper example.
   3) What are the uses of EXISTS and NOT EXISTS operators in Sub queries? Explain giving appropriate example.

4 Answer the following: [Any Four]   **[20]**
   1) What is Package? How it is created?
   2) Differentiate privileges and rights. How privileges and rights are granted to users and revoked to the user? Explain with proper example.

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3) What is Cursor? Explain explicit and implicit cursors.
4) Discuss any two Control Statements in PL/SQL block.
5) What is nested table? Explain any four attributes of nested table.
6) How to protect all the work and data in an oracle database? Explain the different protection mechanism.

5 Answer the following: [Any Two]   **[12]**

1. Consider table STUDENT (roll_number, name, age, phone, marks). Write a procedure that is passed a student's roll number and returns back the student's full name and phone number from the STUDENT table to the calling program. Also write an anonymous block with the procedure call.

2. Write a function that will display maximum salary of employee for the given department number. Consider table EMP (emp_id, name, salary, dept_no).

3. Write a trigger that is fired before execution of the DML statement on the EMPLOYEE table. The trigger is based on sysdate. If the day is Sunday, the trigger does not allow execution of the DML statement and raise an exception. Write the appropriate message in the exception-handling section. Consider table EMP(emp_id, name, salary, dept_no, join_date).

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