SARDAR PATEL UNIVERSITY
BCA IVth SEMESTER
US04CBCA01 || RDBMS-II
Date: 05th APRIL 2018 (Thursday)
Time: 02:00 P.M. to 05:00 P.M.   Marks: 70

Q-1   Multiple Choice Questions.   [10]

1   Which of the following is not an anomaly?
        (a) INDEX   (b) INSERT (c) UPDATE (d) DELETE

2   Every time attribute A appears, it is matched with the same value of attribute B, but not the same value of attribute C. Therefore, it is true that:
        (a) A-> B (b) A-> C (c) A->(B,C) (d) (B,C)->A

3   The _____ section deals with handling of errors that arise during execution of the data manipulation statements, which makes up the PL/SQL code block.
        (a) Exception (b) Declaration (c) End (d) Error

4   The _____ statement changes the flow of control within PL/SQL block.
        (a) goto   (b) loop   (c) end loop   (d) repeat

5   In PL/SQL, Code blocks start with a _____ Section.
        (a) Declare (b) Exception (c) Begin (d) Main

6   _____ type of parameter used to send values to stored procedures.
        (a) OUT   (b) IN   (c) INOUT   (d) none of above

7   _____ exception is raised when the data type or data size is invalid.
        (a) program_error b) value_error   c) type_invalid   d) none of these

8   _____ can be declared by user for the queries that return more than one row
        (a) Implicit Cursor b) Explicit Cursor c) User defined Procedures d) User defined Functions

9   The error occurred during the compilation of procedure are stored in _____ table.
        (a) dual (b) user_errors (c) user_constraint (d) user_procedure

10   Which is not a type of trigger?
        (a) row level   (b) column level (c) statement (d) all of the above

Q-2   Answer the following questions (Any Ten).   [20]

1   What is Normalization?
2   What is Transitive Dependencies explain with Example.
3   Draw the PL/SQL block structure.
4   Write Advantages of PL/SQL.

5   Define: %type and %rpwtype.
6   Explain the use of EXIT WHEN in brief.
7   Explain row level and statement level trigger.
8   Differentiate between implicit cursor and explicit cursors.
9   Define explicit and implicit cursor.
10 List Explicit/Implicit cursor attributes.
11 Write syntax of Function.
12 Write syntax of Procedure.

Q-3 |A| List out and Explain the consequences of poor database design.   [5]
     |B| Discuss the purpose of normalization & normalization process. What are the   [5]
          normal forms? Explain with suitable example
                                       OR
Q-3 |A| What is Normalization? Explain 1st normal form, 2nd normal form and 3rd [5]
          normal form with example.
     |B| Explain Functional Dependencies?   [5]

Q-4 |A| Explain Sequential control with syntax and example.   [5]
     [B] Explain basic data types in detail.   [5]
                                       OR
Q-4 |A| Explain conditional control with syntax and example.   [5]
     [B] Explain Iterative control with syntax and example.   [5]

Q-5 |A| List and explain implicit cursor attributed with suitable example.   [5]
     |B| Write note on pre-determined internal PL/SQL exceptions with example.   [5]
                                       OR
Q-5 |A| Explain following statements for explicit cursors : (Any Two)   [5]
          a) open b) close c) fetch
     |B| List any two exceptions available in Oracle. Explain any one of them in   [5]
          detail with suitable example.

Q-6 |A| What is procedure and functions? Explain procedure and function with   [10]
          syntax and suitable example.
                                       OR
Q-6 |A| What is trigger? List various types of trigger And explain how to create   [10]
          trigger with appropriate syntax and example.

(2)