

Seat No.: \_\_\_\_\_

[33]

**SARDAR PATEL UNIVERSITY****M.Sc (Information Technology)****Semester I****[PS01CINT04]: RDBMS & Client Server Computing**

Date: 26/10/2016

Time: 10.00am to 1.00pm

Max. Marks: 70

**Q-1 Select the appropriate option from the following [8]**

- 1 Which one of the following commands is used to remove database object privileges from user?  
a) Grant                      b) Revoke                      c) Assign                      d) Select
- 2 Functions that act on only one value at a time are called \_\_\_\_\_.  
a) Scalar                      b) Group                      c) Aggregate                      d) None
- 3 In a View, \_\_\_\_\_ specifies that rows may only read from the base tables.  
a) With read only                      b) Read only                      c) Read                      d) With read
- 4 Changes made to the database without commit may be abandoned using \_\_\_\_\_ statement.  
a) Commit                      b) Rollback                      c) Save Point                      d) None
- 5 In a sequence, \_\_\_\_\_ is used to specify no integers are to be stored.  
a) NOCACHE                      b) ORDER                      c) NOORDER                      d) NOCYCLE
- 6 \_\_\_\_\_ command is used to modify structure of a table.  
a) Alter                      b) Update                      c) Modify                      d) Change
- 7 A Sub query is also termed as \_\_\_\_\_ query.  
a) Index                      b) Nested                      c) View                      d) None
- 8 \_\_\_\_\_ is a compulsory section of PL/SQL block.  
a) Declare                      b) Begin                      c) Exception                      d) All

**Q-2 Answer the following questions in brief [Attempt any seven] [14]**

- [1] What is RDBMS? List out benefits of RDBMS.
- [2] Explain Pattern matching with example.
- [3] Explain LOWER () function with syntax and example.
- [4] What is View? Write down syntax of creating a simple view.
- [5] What is index? Write down the advantages of it.
- [6] How to add foreign key using alter statement? Explain with syntax and example.
- [7] Explain Commit and Rollback statement.
- [8] What do you mean by frontend and backend tools?
- [9] Differentiate between Procedure and Trigger.

**Q-3[A]** What is Normalization? Explain 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> normal forms with example. [6]

**Q-3[B]** Define Data model. Explain Hierarchical data model in detail. [6]

**OR**

**Q-3[B]** What you mean by Constraints? What is table level and row level constraint? List down different types of constraints. Explain any one with example. [6]

**Q-4[A]** List out Dr. E.F.Codd rules. Explain any three rules in detail. [6]

**Q-4[B]** List out different types of Joins. Explain any two joins with syntax and example. [6]

**OR**

**Q-4[B]** What is use of Sequence? Explain creation of sequence with syntax and example. [6]

**Q-5[A]** Explain Explicit cursor with its attributes and example. [6]

**Q-5[B]** Explain following functions with syntax and example. [6]

1. SUBSTR
2. POWER
3. FLOOR

**OR**

**Q-5[B]** Explain Grant and Revoke statement with syntax and example. [6]

**Q-6[A]** What is Trigger? List different types of trigger. Explain creation of trigger with syntax and example. [6]

**Q-6[B]** Draw DFD and Context level diagram for "Sales Order System". [6]

**OR**

**Q-6[B]** Explain 2-tier and 3-tier architecture in detail. [6]

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