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**SARDAR PATEL UNIVERSITY****M. SC. (MOBILE TECHNOLOGY & APPLICATIONS)****SEMESTER – I****PS01CMTA03 (RDBMS & CLIENT SERVER COMPUTING)****26<sup>TH</sup> OCTOBER, 2016****Time : 10:00 a.m. to 1:00 p.m.****Marks : 70**

**Note : Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.**

**Q-1 Pick up the most appropriate answer from the given alternatives and write in your answer book. (8)**

- (1) In E-R Diagram relationship type is represented by \_\_\_\_\_.  
 (A) Ellipse (B) Rectangle (C) Diamond (D) None of these
- (2) \_\_\_\_\_ join performs the Cartesian product of two table.  
 (A) Left Inner (B) Right Inner (C) Cross (D) None of these
- (3) \_\_\_\_\_ is a collection of concepts that can be used to describe the structure of a database.  
 (A) Data Model (B) Realistic Model (C) Instance Model (D) None of these
- (4) The full form of DDL is \_\_\_\_\_.  
 (A) Data Distribution Language (B) Distributed Database Language  
 (C) Data Definition Language (D) None of these
- (5) \_\_\_\_\_ is the process to convert any application to another DBMS or to its source code language.  
 (A) Reengineering (B) Forward Engineering  
 (C) Reverse Engineering (D) None of these
- (6) Which of the following gets the largest integer less than or equal to X?  
 (A) TRUNC (B) CEIL(X) (C) FLOOR(X) (D) ACOS(X)
- (7) A record-type is a programming structure that mirrors a \_\_\_\_\_ in a table.  
 (A) Multiple rows (B) Single row  
 (C) Multiple columns (D) Single column
- (8) Which of the following SQL operation demands the use of wild cards comparisons?  
 (A) IN (B) BETWEEN (C) EXISTS (D) LIKE

**Q-2 Attempt the following: (ANY SEVEN) (14)**

- 1) Differentiate between DBMS & RDBMS.
- 2) Explain PL/SQL block in brief.
- 3) Differentiate between homogeneous and heterogeneous distributed database
- 4) Mention the use of Index and Sequence in brief.
- 5) What is View? Give an example of CREATE VIEW command.
- 6) What is Range Searching and Pattern matching?
- 7) What is query? Give an example of SELECT statement, which makes the use of IN and AND keywords.
- 8) List and explain DML statements with its syntax and example.
- 9) Explain Commit, Rollback and Savepoint with syntax and example.

- Q-3 (a) Mention Dr. E. F codd rules for relational database. [6]  
(b) What is Entity-Relationship diagram? Draw E-R diagram for library management system. [6]

OR

- (b) What is database normalization? Explain 1NF, 2NF & 3NF with example. [6]  
Q-4 (a) What is constraint? Discuss different Constraints with its use, syntax and example. [6]  
(b) Write a note on stored procedure.

OR

- (b) Explain the concepts of triggers in database with suitable example. [6]  
Q-5 (a) Write a note on reverse engineering. [6]  
(b) Draw a Context Level diagram, 1<sup>st</sup> Level DFD and 2<sup>nd</sup> Level DFD for Banking Environment.

OR

- (b) Explain in detail working of event driven programming. [6]  
Q-6 (a) Explain GRANT and REVOKE commands with syntax and example. [6]  
(b) What is Cursor? Explain the use of explicit and implicit cursor by taking suitable example.

OR

- (b) Write a note in Conditional and Looping Statements in PL/SQL block taking suitable example.

*Wish You All The Best*