

SARDAR PATEL UNIVERSITY
M.Sc. IT Sem-1 External Examination
PS01CINT04 (RDBMS and CLIENT SERVER COMPUTING)
Tuesday, 28th April, 2015

Time: - 10:30 P.M. to 1:30 P.M.

Max Marks: 70

- Q-1 Choose the most appropriate option for each question. [8]**
- 1) The _____ data model organizes data in a tree structure.
 [A] Hierarchical [B] Network
 [C] Relational [D] Organization
 - 2) Any particular column or data item from a record is defined as a _____.
 (a) Data (b) Field
 (c) Information (d) Record
 - 3) In PL/SQL, Code blocks start with a _____ Section.
 [A] Begin [B] Exception
 [C] Declaration [D] Main
 - 4) The _____ Join returns all rows both tables where there is match.
 (a) Cross (b) Outer
 (c) Full (d) Inner
 - 5) _____ 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
 - 6) A _____ trigger is fired only for once for a DML statement irrespective of the number of rows affected by the statement.
 (a) Before (b) After
 (c) Statement (d) Row-Level
 - 7) Procedure are stored in _____
 [A] oracle database [B] SGA
 [C] Client machine [D] None of these
 - 8) _____ is not a type of distributed database.
 (a) Complexions (b) Homogeneous
 (c) Heterogeneous (d) Client/ Server
- Q-2 Answer the following questions (Any Seven). [14]**
- 1) Define: Data, Database, Field and Record.
 - 2) Difference between DBMS and RDBMS.
 - 3) Explain Pseudo Columns.
 - 4) Explain Adapter.
 - 5) What is PL/SQL Block?
 - 6) Explain Index and Sequence in Detail.
 - 7) What is Distributed System? Which are the types of Distributed System?
 - 8) Explain 2 Phase Commit Protocol.
 - 9) What is Reverse Engineering?

- Q-3 [A] Explain Dr. E.F. Codd Rules [06]
[B] Which are the types of SQL Commands? Explain in Details. [06]
OR
[B] What is Normalization? Explain 1NF, 2NF and 3NF.
- Q-4 [A] What is Cursor? Explain in Detail. [06]
[B] Explain all Data Constraints. [06]
OR
[B] What is PL/SQL Block? Explain its with Advantages and Disadvantages.
- Q-5 [A] Difference Between 2-Tier and 3-Tier Architecture. [06]
Q-5 [B] What are Stored Procedure and Stored Function? Explain with Example. [06]
OR
[B] What is Trigger? Explain in Detail.
- Q-6 [A] Draw ER Diagram for Student Information System. [06]
Q-6 [B] Explain Commit Protocols in Details. [06]
OR
[B] What is Event-Driven Programming? Explain with Example.

*****Best of Luck*****