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Sardar Patel University
External Examination

B. Sc. 5th Semester (Information & Technology)
US05CINT01 : Relational Database Management Systems-I
Tuesday, 12th November - 2013

Time : 10:30 am to 01:30 pm

Total Marks : 70

Q.1 Select the correct answer for the following.

[10]

1. _____ key represents relationship between tables.
[a] Primary [b] Foreign [c] Unique [d] Check
2. Entity is represented by _____.
[a] Rectangle [b] Circle [c] Double lined Rectangle [d] Oval
3. Which SQL statement is used to update data in a database?
[a] SAVE AS [b] MODIFY [c] UPDATE [d] SAVE
4. Which SQL statement is used to insert new data in a database?
[a] Add new [b] Insert new [c] Insert into [d] Add Record
5. To commit a transaction means making the changes _____.
[a] Temporary [b] Permanent [c] Parsed [d] Rolled Back
6. _____ SQL*PLUS command used to execute last executed command.
[a] Forward slash (/) [b] Backslash (\) [c] Ed [d] Get
7. When a column is defined as not null, that column becomes a _____ column.
[a] Primary key [b] Unique [c] Mandatory [d] Not Compulsory
8. Functions that act on only one value at a time are called _____.
[a] Scalar Function [b] Aggregate Function
[c] Group Function [d] Multiple Row Function
9. A _____ is a form of an SQL statement that appears inside another SQL statement.
[a] Index [b] Sub Query [c] Union [d] Group By
10. _____ Privilege allows the grantee to query the table.
[a] Insert [b] Select [c] Update [d] Delete

Q.2 Answer in short. (Attempt any TEN)

[20]

1. Define the terms DBMS and RDBMS.
2. List types of SQL statements with example.
3. What is many-to-many relationship. Give one example.
4. List any two SQL * PLUS commands with example.
5. List out arithmetic operators and logical operators.
6. Write syntax for INSERT and UPDATE.

7. What is table level Constraints?
8. List the restriction available on ALTER table.
9. How can we use a column level primary key explain.
10. What is row id? Gives the type of row id.
11. What is a privilege? List the object privileges.
12. Explain the use of rollback and commit.

- Q.3** [a] What is E-R diagram? explain its notations. **[05]**
[b] Explain types of relationship and mapping cardinality with example. **[05]**

OR

- Q.3** [a] Define Normalization. Explain 1NF, 2NF and 3NF by taking suitable example. **[05]**
[b] List out E. F. Codd rules and explain any four. **[05]**

- Q.4** [a] Explain advantages and disadvantages of SQL. **[05]**
[b] Discuss pattern matching predicate in detail. **[05]**

OR

- Q.4** [a] Explain CREATE Statement and SELECT statement with example. **[05]**
[b] Explain DDL, DML, and DCL. **[05]**

- Q.5** List all Scalar functions available in oracle and explain any three of them with appropriate syntax and example. **[10]**

OR

- Q.5** List all Aggregate functions available in oracle and explain any three of them with appropriate syntax and example. **[10]**

- Q.6** [a] What is view? Why it is created? Explain it's syntax with example. **[05]**
[b] Write syntax of grant & revoke, Explain any four object privileges. **[05]**

OR

- Q.6** [a] Explain referencing a sequence with the example. **[05]**
[b] What is index? Explain creation of simple & composes index. **[05]**

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