SARDAR PATEL UNIVERSITY
B.Sc. (Information Technology) EXAMINATION, V SEM

Date : 11th NOV 2019, Monday   Time :10:00am To 01:00pm
Session : Morning   Sub: Relational Database Management System - I
Course No : US05CINT01   Total marks : 70

Q – 1   Multiple Choice Question   [10]

i)   _____ key represents relationship between tables.
   a) Primary   b) Foreign   c) Unique   d) Check

ii)   Which SQL statement is used to modify data in a database?
   a) Save As   b) Modify   c) Update   d) Save

iii)   Actual value of a column is also called _____.
   a) Tuple   b) Derived Attribute   c) Attribute   d) Domain

iv)   _____ is a transaction control statement.
   a) Update   b) Alter   c) Commit   d) Select

v)   Which SQL statement is used to insert new data in a database?
   a) Add new   b) Insert now   c) Insert into   d) Add record

vi)   The _____ command displays only the column names, data type, Size and Not Null constraints.
   a) Constraints   b) User_constraints   c) DESC   d) Display

vii)   The _____ function returns an integer value corresponding to the UserID of the user currently logged in.
   a) ROWID   b) USER   c) UID   d) ROWNUM

viii)   The data held across the primary key column must be _____ .
   a) Unique   b) Repetitive   c) Null   d) Simple

ix)   The _____ Clause is another section of the selection of the select statement .
   a) Group by   b) Sub query   c) Having   d) Where

x)   The address field of an Index is called _____.
   a) Row id   b) Column Id   c) View   d) Index

Q – 2   Short Answer attempt any ten (Each carry 2 marks)   [20]

i)   Define : DBMS , RDBMS

ii)   Define attribute and tuple.

iii)   List types of SQL statement with example .

iv)   Explain Order By Clause.

v)   Explain concept of DUAL table.

vi)   List out arithmetic operator and give any two example on dual table..

vii)   How Unique Key constraint can be apply at column level as well as table level?

viii)   Explain use of BETWEEN operators in concern with Range searching.

ix)   Explain COALESEC with example.

x)   What is nested query? Why it is used for ?

xi)   List the types of indexes and explain reverse index.

xii)   Write Syntax of GRANT statement

Q – 3   a)   Explain any six Codd rules.   [06]
**   b)   Explain E-R diagram notations**   [04]

OR

Q – 3   a)   Define Normalization. Explain 1NF, 2NF and 3NF by taking suitable example.   [06]
**   b)   List types of relationship and explain any one.**   [04]

(P.T.O)

Q – 4 a) Explain all types of operators of SQL with example. [10]

OR

Q – 4 a) Explain DDL, DML, and DCL statements. [10]

Q – 5 a) List all aggregate functions available and explain any two with syntax and example. [06]

b) Discuss principals of NULL values [04]

OR

Q – 5 a) Explain primary key constraint in detail with syntax and example. [06]

b) Explain NVL and DECODE with syntax and example [04]

Q – 6 a) List Different types of Joining. Explain any two with example [06]

b) Explain view and updatable view with example. [04]

OR

Q – 6 a) What is Index? Explain types of Index . [06]

b) Explain referencing a sequence with the example. [04]

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