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SARDAR PATEL UNIVERSITY  
B.Sc. Examination, SEMESTER – V: December - 2020  
BIO INFORMATICS

## US05CBNF22: Relational Database Management System

Date: 26/12/2020, Saturday Time: 02:00pm to 04:00pm Max. Marks: 70

## Q.1 Multiple choice of Question:

[10]

1. The same piece of information may store in two or more files is called \_\_.  
(a) Data independency (b) Data Consistency  
(c) Data redundancy (d) Data security
2. Who has the centralized control of data in DBMS?  
(a) Programmer (b) Native user (c) Casual user (d) DBA
3. Which of the following scheme continues the definition of the store record?  
(a) Conceptual (b) Physical (c) Internal (d) Relational
4. \_\_\_\_\_ query is of type DDL.  
(a) Insert (b) Update (c) Delete (d) Create
5. \_\_\_\_\_ Clause is use with select statement to display unique records of a column specified.  
(a) Order by (b) display (c) between (d) Distinct
6. \_\_\_\_\_ Statement is use to delete a table structure.  
(a) Connect (b) update (c) delete (d) drop
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. The data held across the primary key column must be \_\_\_\_\_.  
(a) Unique (b) Repetitive (c) NULL (d) Simple
9. TO make the change permanent a statement has to be given at the SQL statement.  
(a) Commit (b) save point (c) roll back (d) view
10. The address field of an index is called \_\_\_\_\_.  
(a) Row id (b) column id (c) View (d) Index

## Q.2 Fill up the Blank and True or False.

[08]

1. Relation can be represented as \_\_\_\_\_.
2. Rows of the relation are referred as \_\_\_\_\_.
3. \_\_\_\_\_ SQL PLUS command is use to open notepad editor for modifying last executed query.
4. Maximum number of characters allowed in varchar data type is \_\_\_\_\_.
5. For character data-types the % sign matches any string. [True / False]
6. Table level constraints are stored as a part of the Global table definition. [True / False]
7. The Begin section is compulsory in PL/SQL block. [True / False]
8. put\_line puts a piece of information in the package buffer followed by an end of line marker. [True / False]

[1]

Q.3 Answer the following questions in SHORT (Any 10):

[ 20 ]

1. What is DBMS? Give Example of DBMS.
2. Draw the structure of DBMS.
3. List Advantages of DBMS.
4. What is the use of SELECT command?
5. Explain the use of ORDER BY clause in brief.
6. What are the restrictions on ALTER TABLE?
7. What are the features of NULL value?
8. Explain concept of DUAL table.
9. What is table level and column level Constraints?
10. Write Advantages of PL/SQL.
11. What are object privileges? List all object privileges.
12. Explain the use of rollback.

Q.4 Answer the following questions in LONG (Any 4):

[ 32 ]

1. List and explain codd rules.
2. What is Normalization? Explain 1st normal form, 2nd normal form and 3rd normal form with example.
3. Explain various ways to change structure of a table using alter statement.
4. What is DML? List and explain different types of commands under this category.
5. List all character functions available in oracle and explain any Three of them with appropriate syntax and example.
6. Explain To\_number(), To\_Date(), TO\_CHAR() with syntax with example.
7. What is use of sequences? Explain creating & dropping it with example.
8. List different types of join? Explain with syntax and example.

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