INDIAN SCHOOL SOHAR
UNIT TEST (2019-2020)
COMPUTER SCIENCE

Class: XI   **Marks: 50**

Date: 19-05-19   **Time: 2 hours**

Instructions:

a. *All the questions are compulsory.*

b. *Answer the questions after carefully reading the text.*

1. **Answer the following questions:**

   a) What is DBMS?   1

   b) What are table joins?   1

   c) Categorize the following commands under DDL and DML: 2

       CREATE,DELETE,RENAME,SELECT ,UPDATE,DROP,ALTER,INSERT

   d) Name the classification of SQL Statements.   2

   e) Write any four advantages of DBMS.   2

   f) Define the terms: Candidate key and Alternate key.   2

   g) What is Column alias? How is it useful?   2

   h) Differentiate between DROP and DELETE.   2

   i) A table "Bus" in a database has 5 columns and 8 records. What is the degree and cardinality

       of this table? What will be its degree if two more rows are added to the table.   2

   j) Which comparison operator is used for comparing

       i) Patterns   ii) list of values   2

   k) How is cross join different from natural join?   2

   l) Write any two advantages and disadvantages of table indexes.   2

2. Create table Product based on the structure given below: 2

   Product: Table structure

Column name	Data Type	Constraint
Pid	Char(4)	Primary key
Pname	Varchar(15)	
Manufacturer	Varchar(4)	
Price	Integer(4)	Not null
DatofManufacture	Date	

   Product: Table

Pid	Pname	Manufacturer	Price	DatofManufacture
P001	Moisturiser	XYZ	40	2018-09-12
P002	Sanitizer	LAC	35	2018-02-10
P003	Bath Soap	COP	25	2019-01-26
P004	Shampoo	TAP	95	
P005	Lens Solution	COP	350	2019-03-29

Client: Table

Cid	Cname	City	Pid
01	Dreamz disney	New Delhi	P002
05	Life line Inc	Mumbai	P005
12		New Delhi	P001
15	Appolo	Chennai	P003

3. Write SQL Commands for the following on the basis of information given above:

   i)   Insert a new row into product with values: P006, Handwash,100.   1

   ii)   Display the Manufacturer and price of products whose product name ends with "R" or "N".   1

   iii)   Show details of Shampoo and Sanitizer in ascending order of their rate.   1

   iv)   List the various manufacturers of products.   1

   v)   List the productid, name and price of all items whose rate is less than 50 and is manufactured in the year 2018.   1

   vi)   List the details of products having 'a' as the second character and not having 'r' as the last character in their product names.   1

   vii)   Display the product name and city of all products from Mumbai or Chennai.   1

   viii)   List the product name whose rate is not in range 25 to 40 in descending order of their price.   1

   ix)   List the details of products whose client name is not mentioned.   1

   x)   Remove the details of products with rate less than 300 rupees.   1

   xi)   Show all details of clients in increasing order of rate and decreasing order of city.   1

   xii)   Show the product name, manufacturer and discounted price(10% of price) of all items whose date of manufacturing is known.   1

   xiii)   List the details of all products whose product name contains 5 characters.   1

   xiv)   List the products made by LAC whose clients are not from New Delhi.   1

   xv)   List the product name and city of all products whose city have 'ai' in their names.   1

   xvi)   Create a new table "Order" consisting the details of all products manufactured before 1st May 2019.   1

   xvii)   Delete the table client.   1

   xviii)   What is the degree and cardinality of cross join of product and client table.   1

4. Write the output of the following Queries:

   i)   Select pname,manufacturer from product where manufacturer ="XYZ";   1

   ii)   Select pname,city from product,client where product.pid=client.pid;   1

5. Remove the errors (if any) from the following queries and rewrite the corrected ones.

   i)   Select price from product where price between 100 && 400;   1

   ii)   Delete * from product;   1

   iii)   Select all city from client;   1

   iv)   Select * from client where cname =null;   1

   v)   Select manufacturer, totPrice=price*6 from product;   1

   vi)   Select * from product order by pname asc and price desc;   1

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