ST. ANTHONY PUBLIC SCHOOL PARA
UNIT TEST SERIES-3
[(SUBJECT:- COMPUTER SCIENCE) (CLASS:-XII)]

MM:-35   Duration:- 90 min

Note:- All questions are compulsory

Very short Answer type questions		[15x1=15]
Q-1	In SQL, name the clause that is used to display the tuples in ascending order of an attribute.	1
Q-2	In SQL, what is the use of IS NULL operator?	1
Q-3	Write any one aggregate function used in SQL.	1
Q-4	Which of the following is a DDL command? a) SELECT b) ALTER c) INSERT d) UPDATE	1
Q-5	In SQL, write the query to display the list of tables stored in a database	1
Q-6	Write two usage of DESC in SQL.	1
Q-7	Name some basic MySQL SQL elements.	1
Q-8	Name some commands used to assign/revoke privileges from database users.	1
Q-9	Name any two relational algebra operator	1
Q-10	Differentiate between CHAR and VARCHAR Datatypes.	1
Q-11	Explain the use of like clause in sql	1
Q-12	Which MySql command is used to modify the structure of table.	1
Q-13	Write Sql command to remove a column in table	1
Q-14	Write any two role of DBA.	1
Q-15	What is altenate key.	1
HOTS[High Order Thikning]		
Q-16	A departmental store MyStore is considering to maintain their inventory using SQL to store the data. As a database administer, Abhay has decided that : Name of the database - **MyStore** Name of the table - **STORE** **The attributes of STORE are as follows:** 1) ItemNo - numeric 2) ItemName character of size 20 3) Scode - numeric 4) Quantity – numeric	

Table : STORE

ItemNo	ItemName	Scode	Quantity
2005	Sharpener Classic	23	60
2003	Ball Pen 0.25	22	50
2002	Get Pen Premium	21	150
2006	Get Pen Classic	21	250
2001	Eraser Small	22	220
2004	Eraser Big	22	110
2009	Ball Pen 0.5	21	180

i)	Identify the attribute best suitable to be declared as a primary key,	**1**
ii)	) Write the degree and cardinality of the table STORE.	**1**
iii)	Insert the following data into the attributes ItemNo, ItemName and SCode respectively in the given table STORE. **ItemNo = 2010, ItemName = "Note Book" and Scode = 25**	**1**

iv)	Abhay want to remove the table STORE from the database MyStore. Which command will he use from the following:
	   a) DELETE FROM store;
	   b) DROP TABLE store;
	   c) DROP DATABASE mystore;
	   d) DELETE store FROM mystore;
		1

v)	(e) Now Abhay wants to display the structure of the table STORE, i.e, name of the attributes and their respective data types that he has used in the table. Write the query to display the same.	1
Q-17 (A)	**Write the outputs of the SQL queries (i) to (iii) based on the relations Teacher and Posting given below:**	

Table : Teacher

T_ID	Name	Age	Department	Date_of_join	Salary	Gender
1	Jugal	34	Computer Sc	10/01/2017	12000	M
2	Sharmila	31	History	24/03/2008	20000	F
3	Sandeep	32	Mathematics	12/12/2016	30000	M
4	Sangeeta	35	History	01/07/2015	40000	F
5	Rakesh	42	Mathematics	05/09/2007	25000	M
6	Shyam	50	History	27/06/2008	30000	M
7	Shiv Om	44	Computer Sc	25/02/2017	21000	M
8	Shalakha	33	Mathematics	31/07/2018	20000	F

Table : Posting

P_ID	Department	Place
1	History	Agra
2	Mathematics	Raipur
3	Computer Science	Delhi

i)	SELECT Department, count(*) FROM Teacher GROUP BY Department;	1
ii)	SELECT Max(Date_of_Join),Min(Date_of_Join) FROM Teacher;	1
iii)	SELECT Teacher.name,Teacher.Department, Posting.Place FROM Teachr, Posting WHERE Teacher.Department = Posting.Department AND Posting.Place="Delhi";	1
Q-17 (B)	**Write SQL commands for the following queries (i) to (v) based on the relations Teacher and Posting given below:**	
i)	To show all information about the teacher of History department.	1
ii)	To list the names of female teachers who are in Mathematics department.	1
iii)	To list the names of all teachers with their date of joining in ascending order.	1
iv)	To display teacher's name, salary, age for male teachers only	1
v)	To display name, bonus for each teacher where bonus is 10% of salary.	1
Q-18	What are the basic steps to connect python with MYSQL using table members present in the database society.	3
Q-19	Explain the following result retrieval methods with example. a) fetchone() b) fetchall() c) rowcount() d) cursor()	4