Q.1 Describe the following MySQL commands with example   [4]

     (a) DISTINCT   (b) LIKE   (c) ORDER BY   (d) IS NULL

Q.2 Explain the given below constraints with MySQL Command.   [4]

     (a) CHECK   (b) DEFAULT   (c) NOT NULL   (d) UNIQUE

Q.3 Write difference between primary key and Alternate key with MySQL code.   [2]

Q.4 Describe the following functions with suitable MySQL example.   [2]

     (a) INSTR ( )   (b) SUBSTR ( )

Q.5 Write the output of given below MySQL commands for table "COMPANY"   [2]

Table : COMPANY

EMP_ID	SALE
S101	13000
S103	NULL
S104	18000
S105	15000

  (a) SELECT SUM(SALES), AVG (SALES) FROM COMPANY.
  (b) SELECT COUNT (DISTINCT (SALES)) FROM COMPANY.
  (c) SELECT SALES, ROUND (SALES, -4) FROM COMPANY
  (d) SELECT MIN(SALES), MAX(SALES), MIN(SALES) < AVG(SALES) FROM COMPANY.

Q.6 There is a column QUANTITY in a table SUPPLIER. The following two statements are   [1]
giving different outputs. What may be the possible reason?
   SELECT COUNT(*) FROM SUPPLIER;
   SELECT COUNT(QUANTITY) FROM SUPPLIER

Q.7 Table SPORTS has 4 rows and 3 columns. Table ACADEMICS has 3 rows   [2]
 and 4 columns. What will be the cardinality & degree of the Cartesian product of
 SPORTS & ACADEMICS?

Q.8 Categorize the DDL and DML commands:

  CREATE, ALTER, DELETE, GRANT, ROLLBACK, SELECT, UPDATE, MODIFY, COMMIT   [2]

Q.9 Consider the table **Flight** given below, write command in SQL for (I) to (IV) and
output for (V) to (VIII).   [6]

Table : **FLIGHT**

Flight_No	Origin	Destination	Seats	FlightDate	Rate
1005	Varanasi	Nepal	275	12-Dec-07	3000
2785	Delhi	Kerala	290	17-Jan-08	5500
6587	Mumbai	Varanasi	435	19-Feb-08	5000
1265	Varanasi	Nepal	200	02-Jan-08	5400
4457	Delhi	Lucknow	150	22-Feb-08	4500
6856	Varanasi	Mumbai	180	03-Mar-08	6000

(I) To display Flight flying between Varanasi and Nepal.

(II) To display the different Origin (without repetition) of Flights.

(III) To display list of flights in descending order of Rate.

(IV) To display flight details of the flight whose flightdate is after Jan 2008.

(V) SELECT Flight_No, Destination FROM Flight WHERE Destination LIKE '_u%';

(VI) SELECT Origin, COUNT(*) FROM Flight GROUP BY Origin;

(VII) SELECT Origin, Destination FROM Flight WHERE seats>400;

(VIII) SELECT SUM(Rate),MAX(Seats) FROM Flight;

Q.10   In a Database there are two tables :

Table : PRODUCT

PCode	Pname	Price
101	Television	75000
202	Computer	42000
303	Refrigerator	90000
404	Washing Machine	27000

Table : BRAND

PCode	Brand
101	**Sony**
202	**HP**
303	**LG**
404	**IFB**

Write MySql queries for the following :-

i)   To display Pcode, Pname and corresponding Brand of these products, whose Price is between 20000 and 45000(both values inclusive). [2]

ii)   ii) To display PCode, Price and Brand Name of the Product, which has Pname as "Television". [2]

iii)   iii) To increase the price of all the products by 15%. [1]

~ ~ ~Good Luck~ ~ ~