Note :   1. All questions are compulsory.
           2. Answer the questions carefully reading the text.

Section-A

Q. 1. a) A School would like to go in for network of all the computers. Which topology would you recommend and why?   (2)

b) What is communication channel? What choices do you have while choosing a communication channel for a network?   (2)

c) What do you mean by network topology? Name most popular topologies.   (2)

d) Navneet is using software, which has been downloaded from internet and is available for one month. After one month he has to pay license fee for further use. What software Navneet is using ?   (1)

e) Akhil is transferring songs from his mobile to his friend's mobile via Bluetooth connection. Name the network used by Akhil.   (1)

f) Which of the following is not a characteristic of open source software?   (1)

- Its source code is available for modification
- Its owned by a company or an individual
- It can be downloaded by Internet

g) Which protocol is used for transfer of hyper text documents on the internet?   (1)

Section-B

Q2. Answer the following :   (10)

(i) What is foreign key and Candidate Key?

(ii) What is single row function?

(iii)What is the purpose of distinct clause? Explain with example.

(iv)What is the use of AS keyword with SELECT statement?

(v) Write Difference between DDL and DML commands

Q3. Write SQL commands for the statements (i) to (vi) and give outputs for SQL Queries (vii) to (x) (10 Marks)

Table: CLUB

GCode	GameName	Number	Fees	StartingDate
101	Carom Board	2	5000	2004-01-23
102	Badminton	2	12000	2003-12-12
103	Table Tennis	4	8000	2004-02-14
104	Chess	2	9000	2004-01-01
105	Lawn Tennis	4	25000	2004-03-19

(i) To display the name of all games with their Gcodes.

(ii) To display details of those games which are having Fees more than 7000.

(iii)To display the content of the CLUB table in descending order of startDate.

(iv) To delete the record of all GameNames.

(v) List the minimum and maximum fees from CLUB.

(vi) SELECT SUM(Fees) from CLUB;

(vii) SELECT MAX(StartDate),MIN(StartDate) FROM CLUB;

(viii) SELECT COUNT(*) from CLUB;

(ix) SELECT FEES+100 from CLUB where GCode=105;

(x) SELECT FEES-50 from CLUB where GCode=104

Q4. Find the output :   (5)

(a) SELECT ROUND(20009.111,-2);

(b) SELECT SQRT(81)+SQRT(49)+SQRT(121);

(c) SELECT MID('VIDS Public School' ,11,8), TRIM(LEADING '!' FROM '!!!!!WEL COME!!!!!');

(d) SELECT SUBSTR(RTRIM('INDIA IS GREAT '),3,9);

(e) SELECT CONCAT(UPPER ('xiHum'), LOWER('xiSc'), UPPER(SUBSTR('xiCom',2,3)));

Q5.a) Which MySQL command helps you to see existing databases?   (1)

b) Neeraj created a table in Mysql. Later he found that table is wrongly created and he wants to remove it.
Name the command by which Neeraj can do it.   (1)

c) Saroj created a table named student, she wants to see those students whose name ending with p. She wrote a
query-

SELECT name.* FROM student WHERE name = ''%p'';

Help Saroj to run the query by removing the errors from the query and rewriting it.   (2)

d) Harshit is not able to set Empid of EMPL table to NULL. Which constraint has he used while creating
table?   (1)

e) What is primary key? How is it different from candidate key? Explain with the help of suitable example. (2)

f) Emp_no, Emp_name and Basic of table "EMP" are given below:

Emp_No	Emp_Name	Basic
6985	Anuj	6700
5874	Kirti	7500
6587	Kiran	NULL
5478	Krihsna	5500

Based on this information, find output of the following queries.   (2)

a)   SELECT MAX(Basic) FORM EMP;

b)   SELECT Name FROM emp WHERE Basic IS Null;

g) Define Degree and Cardinality.   **(1)**

Section-C

Q6. Answer the following :

 a)   What benefit does an e-business offers to the customers?   (1)

 b)   b) How has society benefited from e-governance?   (2)

 c)   **c)** Mr. Kartik is working as a Manager in Flash Telecomm. He wants to create the forms with the following functions. Choose appropriate controls from Text Field, Label, Radio Button, Check Box, List Box, Combo Box, Command Button and write in the third column.   **(2)**

SNo	Control Used to	Control
1.	Enter Name of Customer	
2.	Enter Mobile No.	
3.	Select Connection Type	
4.	Display total Amount of Bill	