BUDHA DAL PUBLIC SCHOOL , PATIALA

IST TERM EXAMINATION
Subject :INFORMATICS PRACTICES   Subject Code : 065
Class: XII

TIME : 3 Hrs.   MAX MARKS : 70

NOTE :
I) All the questions are compulsory.
ii) Answer the questions after carefully reading the text.

Q.1 a. What is protocol ?   1

b) In a school the computer lab was connected to the resource room.
Which type of network has been formed?
LAN, WAN, MAN, PAN   1

c) Arrange the following communication channels in ascending order of their cost.
Ethernet Cable, Optical Fiber, Co-axial cable   1

d) Write any two characteristics of Open Source Software.   1

e) Peter is setting up a network for his office and is confused if to use Hubs or Switches. Which of these
devices would be more efficient one? Justify.   2

f) Why is repeater used in a computer network?   2

g) What are two advantages of star topology?   2

Q.2 a) Which HTML tag is used to insert hyperlink in a web page? Give   one example.   1

b) Expand FLOSS   1

c) Which of the following is a container control?   1
i. TextField   ii. Label   iii. Frame   iv.   Button (radio)

d) While making a Form in Netbeans, Mr Jack wants to display a list   of countries for users to select one
from. Suggest a most appropriate control.   1

e) How can you declare the variable in JAVA for the following;   2
(i) If you want to store **the salary of an employee**.
(ii) If you want to store **the name of an employee.**

f) What is web browser? Give any two examples of web browsers.   2

j) What is Primary key ?   2

Q.3 a) What is equi - join?   1

b) What is a function that can be used in MySql to get current date ?   1

c) What is the difference between HAVING and WHERE clauses?   1

d) Is the following statement correct(Yes/No)? If No then write a corrected statement else leave it unchanged.
   DELETE ALL FROM TABLE EMP;   1

e) Explain the natural join .   1

f) What do you understand by following terms?   2
      i. Attribute   ii. Cardinality

g) The table '**Items'** has following data. What will be the output of the following queries.   2

ITEMNO	COST
101	1000
151	NULL
121	1200
131	1400
141	NULL

i. SELECT AVG(COST) FROM ITEMS;
  ii. SELECT COST *10 FROM ITEMS WHERE ITEMNO=101;

Q.4 a) Which function returns length of a string ?   2

b) How will you get systemtime ?   2

c) Write a command to display first three characters of "information".   3

d) Explain all the constraint used in MYSQL.   4

e) What is the difference between UNIQUE and PRIMARY KEY ?   4

Q.5 a) Write the output of following SQL queries.   2
i. SELECT ROUND(1.289,1) ;
ii. SELECT MID('Discovery Channel' ,4,6) ;
iii SELECT DAYOFMONTH ('2011–03–30');
iv SELECT TRUNCATE (7.727,1);

b) What is the purpose of DROP TABLE?   1

c) Consider the table **PROJECTS** given below. Write SQL commands for
 i) to iv) and output of v) to vii)   (1X 7 = 7)

TABLE : PROJECTS

PID	PRJNAME	PRJSIZE	STARTDATE	ENDDATE	COST
1	Payroll-MMS	Medium	03/17/06	09/16/06	60000
2	Payroll-ITC	Large	02/12/08	01/11/09	500000
3	IDMgmt-LITL	Large	06/15/08	04/21/06	300000
4	Recruit-LITL	Medium	03/31/06	08/22/06	50000
5	IDMgmt-MTC	Small	03/25/07	05/16/07	20000
6	Recruit-ITC	Medium	03/01/07	06/27/07	50000

i. Display information of all medium size projects.
ii. Display project size of projects whose project name ends with 'ITC' .
iii. Display project name, size and cost in ascending order of cost.
 iv. Count the number of 'Large' sized projects.
v. SELECTMAX(COST) FROM PROJECTS WHERE PRJSIZE="MEDIUM";
vi. SELECT PRJNAME,STARTDATE FROM PROJECTS WHERE COST>100000 ORDER BY STARTDATE;
vii. SELECT PRJSIZE,COST FROM PROJECT WHERE STATEDATE BETWEEN '1/1/2007' AND '31/12/2007' ;

Q.6 a) Write MySql command to create **TEAM** table.   2

Name of column	Type	Size	Constraint
Tid	Integer	-	Primary Key
Name	Varchar	10	-
Game	Varchar	10	-
Noofmembers	Integer	-	Not Null

b) Study the following table TEACHER and SALARY and write the SQL commands for the questions (i) and (ii) and give outputs for SQL queries   (iii) and (iv)

Table : TEACHER

SID	NAME	DEPT	SEX	EXPERIENCE
101	Siddharth	Computer	M	12
104	Raghav	Physics	M	5
107	Naman	Chemistry	M	10
114	Nupur	Computer	F	3
109	Janvi	Physics	F	9
105	Rama	Accounts	M	10
117	James	Computer	F	3
111	Binoy	Accounts	F	12
130	Samuel	Computer	M	15

Table : SALARY

SID	BASIC	ALLOWANCE	DA
101	12000	1000	300
104	23000	2300	500
107	32000	4000	500
114	12000	5200	1000
109	42000	1700	200
105	18900	1690	300
130	21700	2600	300

i) Display NAME and DA of all staff who are in Accounts department and having more than 10 years of experience and DA is more than 300.   2

ii) Display the NAME and salary of all staff working in physics department and salary more than average salary. (SALARY=BASIC +ALLOWANCE+ DA)   2

iii) Select NAME, DA, BASIC from TEACHER, SALARY
 Where BASIC>20000 and TEACHER.SID=SALARY.SID;   1

iv) Select NAME, DEPT, SEX, BASIC, DA from TEACHER,
 SALARY Where DEPT LIKE „%o% and DA >=500 and
 TEACHER.SID=SALARY.SID;   1

c) In a database there are two tables 'Company' and 'Model'

Table : Company

CompId	CompName	CompHQ	ContPerson
1	Honda	Chennai	A B Patel
2	Suzuki	Mumbai	B B Roy
3	Toyota	Bangalore	G G Mehta

 Table: Model

ModelId	CompId	ModelCost
T102	3	30000
A10	1	20000
P261	2	40000
S111	3	25000

i) Identify the foreign key in the table model.   1

 ii) What steps are to be taken to delete the company with CompId = 1. Justify.   1

Q.7 a) How does e-business improve customer satisfaction ? Write one point ?   2

b) What is importance of e-learning? Give any one e-learning site.   2

c) Mr Patel has to design an interface for a software he is designing   for a   advertisement company. Choose an appropriate control from Label, TextBox, Radio Button, CheckBox, ListBox,   CommandButton and write in third column.   2

S.No.	Control used to	Control
1	Enter name,address and salary	
2	Select gender	
3	SelectDepartment	
4	Clear form	