INDIAN SCHOOL SOHAR
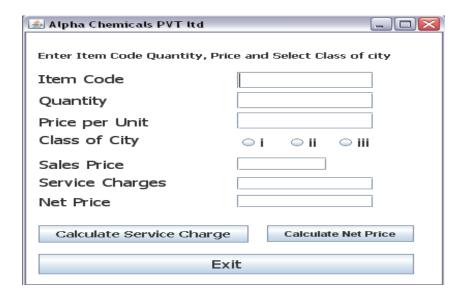## II TERM EXAM (2015-16)
INFORMATICS PRACTICES (065)

Class: XII   **Marks: 70**

Date: 26 November, 2015   **Time: 3 Hours**

Note: *(i)*   ***All questions are compulsory***

       (ii)   ***Answer the questions after carefully reading the text.***

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1. a) Read the given activities carefully and mention whether the activity is snooping or eavesdropping: 2
   I) Getting someone's login information by casually watching what he/she is typing.
   II) Setting up unauthorized parallel telephone lines
   III) Installing some software/hardware which captures the data while on its way.
   IV) Reading the files on someone's computer in an unauthorized manner.

   b) What is a MAC address? How is it different from an IP address?   2

   c) Kristen has typed the following text in the address bar: 2
   http://www.cbse-international.com/help.htm
   Identify and differentiate the URL and Domain name with reference to the example given above.

   d) Define any two threats to Network Security?   2

   e) Which of the following are open source software :   2
   GNU, MS-Office, BOSS, Windows OS

2. a) What is a markup language? Compare XML and HTML.   2

   b) Write HTML TAGS to define the following   2
        i) A check box   ii) A password box

   c) Give the limitations of 'switch' statement.   2

   d) Define Class and Object with reference to Object Oriented Programming.   2

   e) What is Inheritance? What are its benefits?   2

3. a) A numeric data field CNT contains 35675.8765.Write a SQL command to round off 2
      CNT to
      I)Whole number   II) Upto 3 decimal places

   b) Differentiate between SQL commands DROP TABLE and DELETE.   2

   c) What are three transaction control statements in MySQL? Give examples.   2

   d) Explain Table and Column constraints.   2

   e) What is the use of IFNULL() function? Give suitable example.   2

4. Read the following case study and answer the questions that follow:

Service Charges Rates are as follows

Class of City	Rate of Service Charges
i	10% of sales price
ii	15% of sales price
iii	20% of sales price

   i)   Calculate service charges when 'Calculate Service Charge' button is clicked. Also   2
        make 'Calculate Net Price' button un-editable.

   ii) Calculate net price when 'Calculate Net price' button will be clicked. Also make   2
        'Calculate Service Charge' button un-editable.

   iii) Close the application when 'Exit' button is clicked.   1

5. a) Find errors from the following code segment and rewrite the corrected code   2
        underlining the corrections made:

```
int i = 1; j=5;
do{
   j+=i;
}while(++i<=5)
jTextField2.display(j);
```

    b) Find the output: 2

```
int i,j;
for(i=1,j=2;i<=6;i++,j+=2)
      System.out.println(i++);
      System.out.println("Finished!!!");
```

    c) Rewrite the following code using 'while' loop: 2

```
int i, j=2;
for(i=1; i<=6; )
         i++; j+=2;
System.out.println("i=" + i + "j=" + j);
```

    d) Write a function in Java that accepts three numbers as parameters and returns   2
        the greatest one.

    e) Given a String object namely 'subject', having value as "123" stored in it. What   1
        will be the result of following?
        String subject="123";
        JOptionPane.showMessageDialog(this, subject.length()+Integer.parseInt(subject));

    f) Predict the output of: 1
        System.out.println(Math.round(21.5)+"\t"+Math.round(21.6));

6. a) Write the SQL command to create the following table including its constraints.   2

Table : **COACH**

Column Name	Data Type	Size	Constraint
ID	Integer		Primary Key
CName	Varchar	20	Not Null
Age	Integer		
Sports	Varchar	10	
DOA	Date		
Pay	Integer		

b) Answer the questions based on the tables given below:

Table: Coach

ID	CName	Age	Sports	DOA	Pay
1	Pankaj	24	Karate	2011-10-10	4000
2	Shalini	21	Squash	2010-01-01	2000
3	Sanjay	22	Swimming	2010-12-12	3000
4	Manvi	25	Swimming	2009-01-07	1000
5	Govind	21	Karate	2009-10-05	3500

Table: Trainee

TNo	TName	TAge	ID	Fee
T001	Jugal	34	1	500
T002	Sharmila	31	1	200
T003	Sandeep	32	2	NULL
T004	Rakesh	42	3	200
T005	Shyam	50	4	NULL

i. Count the number of coaches for each sport.   1

ii. List all the trainees getting coaching from Pankaj.   1

iii. Show No and Name of Trainees who are not paying any fee.   1

iv. Show details of coaches appointed before 2010.   1

v. Display details of Karate trainees paying fee more than 200.   1

vi. Show details of Squash and Swimming trainees in increasing order of their names.   1

vii. Show details of coaches whose name end with 'i' but does not start with 'm'.   1

viii. Show the highest pay of each sport.   1

ix. Increase pay of all Squash coaches by 25%.   1

x. Increase size of sports column to 15.   1

xi. Delete records of all Karate coaches whose pay is not in the range 1000-2000.   1

xii. Show the average pay of all coaches whose age is not more than 23.   1

xiii. Insert a new row into coach: 6, Vijendra, 29, Boxing, 2015-1-1.   1

xiv. Show name & sports from coach table, no & fee from trainees table along with their matching IDs.   1

xv. Add a Not Null constraint on DOA.   1

xvi. Predict the O/P of:

     I) Select instr(substr("truncated",-5),'t');   1

     II) Select Round(876.79,-2), Truncate(876.79,-2);   1

     III) SELECT SUBSTR(TRIM('   JAVA PROGRAMMING   '),6,7);   1

7. a) Write any two Social and Economic benefits of ICT.   2

   b) Web address of national portal of India is: 1

     I) India.gov.in   II) GOI.gov.in

     III) India.nic.in   IV) None of the above

   c) Define front end and back end.   1

   d) How has our society benefited from e-commerce?   1

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