Sample Paper – 2014
Class – XII
Subject – Informatics Practices(I)

Duration: 3 hrs   Marks: 70

Instructions

- *All questions are compulsory.*
- *Read questions carefully before attempting.*

Q1. Answer according to instructions:

    a. Which network topology requires terminators at the ends of the lines? [1]

    b. Expand the term : GNU, PHP [1]

    c. How is coaxial cable different from optical fiber? [2]

    d. What is the difference between IP address and MAC address? [2]

    e. What is snooping and phishing? [2]

    f. What are the common threats to Network Security? [2]

Q 2.

  a. Which elements are needed to control a Loop? [1]

  b. A list namely studentList has SelectionMode property set to SINGLE-INTERVAL. How would you obtain

  (i) the indices of selected value? (ii) the selected value? [2]

  c. Find the output: [2]

    I.

```
int f=1,i=2;
do
{
     f*=i;
} while(++I <5);
System.out.println(f);
```

Q 3.

  a. Can you assign justified alignment to a paragraph in HTML [1]

  b. What is XML? Write its advantages. [2]

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c. What are the steps involved in JDBC connection? [2]

d. Rewrite the code using While Loop? [2]

```
int i,j;
for(i=1;i<=4;i++)
{
  for (j=1;j<=i;j++)
    System.out.printl( " "+j);
         Sytem.out.println();
}
```

e. Write a program to take input of a variable and show the sum of all odd numbers less than

that given number input by the user. [3]

Q 4. A class CAR having following structure

CAR
String colour
String model;
int speed;
inc_speed()
dec_speed();
break();
change_colour();

(i) Write code to Create a class CAR with data member as specified above [2]

(ii) Write a constructor to initialize colour as "White" and model as "Maruti" for newly created

object. [2]

(iii) Write code for method inc_speed() and dec_speed() to increase or decrease speed by 5 if

every time the methods are called. Also make sure speed should not be more then 100 and less

then 0. [4]

(iv) Write code for break method to set the speed as 0. [1]

(v) Write code for change_colour() to accept new colour from user and change it. [1]

   Q 5. (A)

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a. Define e-governance. [1]

b. How is Back end linked to a Database and a Server? [2]

c. What are the benefits(any two) of E-Business. [2]

(B)

a. You need to remove all the rows from the Sales_HIST table. You want to release the storage space but do not want to remove the table structure. What is the solution to the problem? [2]

b. Differentiate between CHAR and VARCHAR data types? [3]

c. Predict the output: [5]

  i. Select round(29.21,1), round(32.76,1);

  ii. Select power(2,5);

  iii. Select 9 mod 2;

  iv. Select concat('catch a ' ,concat('falling', 'star'));

  v. Select length(trim('……..to be continued…'));

Q 6.

a. What is significance of Group By Clause used in SELECT query ? [2]

b. Define Equi join and non-Equi join [2]

c. What do you understand by Transaction SAVEPOINT & ROLLBACK? [3]

d. What is constraint? Explain the difference between default and check constraints. [3]

Q 7.

a. Create table *Dept* including constraints: [2]

Column	Dept ID	DeptName	DepartLOC	Distance
Key Type	Primary			
Constraint		NOTNULL		
Datatype	Number	Varchar	Varchar	Number

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Length	2	20	20	4

b. Add one more column Email of data type Varchar and size 30 to the table *Dept*   *[2]*

c. Select all the department name in descending order.   [2]

d. Select the department name whose distance is maximum.   [2]

e. Insert values in the table as S101, 'Sales', "delhi", 120.   [2]

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