Sample Paper 2011
Class - XII
Subject – Informatics Practices (065)

Instructions: **(i) All questions are compulsory**
(ii) Answer the questions after carefully reading the text.

SECTION – A (10 Marks)

QA **Answer the following questions:**

A.1 Expand the following terms: (i) OSS (ii) ODF 2

A.2 What do you mean by Denial of Service attacks? 2

A.3 Ms Vidya Chouhan is confused between Proprietary Software and Open Source Software. Mention at least two points of difference to help her understand the same. 2

A.4 Identify the type of topology from the following: 1

    A.4.1 If each node is connected with the help of independent cable with the help of a central switching (communication controller)

    A.4.2 If each node is connected with the help of a single co-axial cable.

A.5 Name the protocols used for sending & receiving mails. 1

A.6 Name two encodings used for Indian language computing. 1

A.7 Which of the following is not a feature of Networking? 1

    (i) Resource Sharing
    (ii) Reliability
    (iii) Uninterrupted Power Supply
    (iv) Reduced Cost

SECTION- B (25 Marks)

QB **Answer the following questions:**

B.1 While working in Netbeans, Ms Kanta Surbhi wants to display "cleared" or "Re attempt required" message depending the marks entered in jTextField. Help her to choose more appropriate statement out of if statement and Switch statement. 1

B.2 Write a statement to make jTextField as un-editable. 1

B.3 Suppose you want to select your Nationality out of four option into a form name the control you will use for it. 1

B.4 What was the differences between Flow Layout and Border Layout? 1

B.5 What will be the output of the following program code: 2

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```
public class MyClass{ p
int a,b;
void set(int I,int J)
{
a=I;        b=J;
}
void show()
{
System.out.println(a+"     " +b+'\n');
}
public static void main(String k[])
{
MyClass o1=new MyClass();
MyClass o2=new MyClass();
o1.set(10,4);
o2=o1;
o1.show();
o2.show();
}
}
```

B.6   State and define the different types of Inheritance with neat diagram?   2
B.7   What is the difference between Method overloading and Method Overriding?   2
B.8   What is the difference between Call by Value and Call by Reference?   1
B.9   What is an use of Extends and Implements keyword in java?   1
B.10   Difference between XML and HTML.   2
B.11   What will be the value of P and Q after execution of the following code?   1

```
int P,Q=100;
for(P=10; P<=12;P++)
{
        Q += P;
}
System.out.println(P);
System.out.println(Q);
```

B.12   Rewrite the following program code using a Switch statement: 2

```
if( code == 1 )
        Month = "January";
else if ( code == 2 )
        Month = "February";
else if ( code == 3 )
        Month = "March"
else if ( code == 4 )
```

        Month = "April";
else
        Month = "No Match";

B.13 What will be displayed in jTextField1 after executing the following code?   2
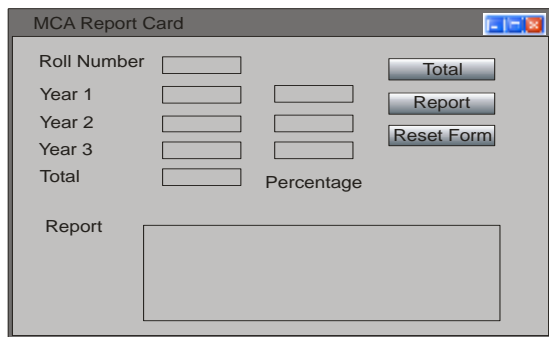   int   m = 16;
      m = m + 1;
      if (m < 15)
            jTextField1.setText(Integer.toString(m));
      else
            jTextField1.setText(Integer.toString(m+15));

B.14 An institute offers MCA course of duration 3 years. The interface given below is designed to capture the marks secured by student in the semester exams. Your help is sought to enhance the interface so that it is able to :

MCA Report Card

Roll Number

Year 1
Year 2
Year 3
Total   Percentage

Total
Report

Report
Reset Form

      The specification of this application are as under :

Object Type	Object Name	Description
Text Field	rollnoTF	To get rollno
	sm1TF, sm2TF	To get marks of year1's semesters
	sm3TF, sm4 TF	To get makes of year2's semesters
	sm5TF, sm6TF	To get marks of year3's semesters
	totTF	To show total marks
	perTF	To show percentage marks
Labels	rnoWidLbl	Lable net to rollnoTF, showing maximum allowed width of rollno

	repLbl	To show report
Button	totalBTN	To calculate total and percentage
	reportBTN	To display report
	resetBTN	To reset the form

a) When user clicks the button Total, the total marks and the percentage of marks secured by the student should be displayed in text totTF and perTF respectively. (Assume that the marks in each semester are out of 600) 2

b) When the user clicks on the button Report, the final report should be displayed in the repLbl in the following format :

Total marks = … and percentage = … % 2

c) Upon clicking the Reset Form button, the form should get cleared. 2

SECTION - C (35 Marks)

QC Answer the following questions:

C.1 Write MySql command that will be used to open an already existing database "CONTACTS". 1

C.2 Table Employee has 4 records and Table Dept has 3 records in it. Mr. Jain wants to display all information stored in both of these related tables. He forgot to specify equi-join condition in the query. How many rows will get displayed on execution of this query? 1

C.3 Rama is not able to change a value in a column to NULL. What constraint did she specify when she created the table. 1

C.4 A table "Transport" is a database has degree 3 and cardinality 8. What is the number of rows and columns in it. 1

C.5 In a Database School there are two tables Employee and Dept as shown below: 2

Table : Employee

EmpID	Name	Sal	Deptno
T001	Vishakha	34000	10
T002	Mridual	32000	50
T003	Manish	45000	20

Table : Dept

Deptno	DName	LocationID
10	Lights	HH02
20	Dance	FF02
30	Production	AB01

C.3.1 Identify the foreign key in the table Employee.

C.3.2 What output, you will get, when an equui-join query is executed to get the NAME from Employee

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table and corresponding DNAME from Dept table ?

C.6 The Doc_Name Column of a table Hospital is given below: 2

Doc_Name
Avinash
Hariharan
Vinayak
Deepak
Sanjeev

Based on the information, find the output of the following queries:

(i)   SELECT Doc_Name FROM HOSPITAL WHERE Doc_Name like "%v" ;
(ii)   SELECT Doc_Name FROM HOSPITAL WHERE Doc_Name like "%e%" ;

C.7 What is the purpose of ALTER TABLE command in MySQL? How is it different from UPDATE command? 2

C.8 Distinguish between a Primary Key and Candidate Key with the help of suitable examples of each. 2

C.9 What is the purpose of DROP TABLE command? How is it different from DELETE command? 2

C.10 Pooja, a student of class XI, created a table "BOOK". Price is a column of this table. To find the details of books whose prices have not been entered she wrote the following query: 2

SELECT * FROM BOOK WHERE PRICE = NULL;

Help Pooja to run the query by removing the errors from the query and overwriting it.

C.11 Write MySQL command for creating a table "**BANK**" whose structure is given below: 2

Field Name	DataType	Size	Constraints
Acct_Name	Integer	4	Primary Key
Name	Varchar	3	
BirthDate	Date		
Balance	Integer	8	Not Null

C.12 Consider the table **Doctor** given below, write command in MySQL for (1) to (4) and output for (5) to (8).

Table : **DOCTOR**

ID	Name	Dept	Gender	Experience	ConstFee
201	R.K. Nath	ENT	M	12	300
457	Mahavir Singh	SKIN	M		500
365	M. Asthana	MEDICINE	F	9	250
221	V. S. Nag	ENT	M	3	150
122	S. P. Sinha	NEPHRO	F		200

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110	J. P. Pandey	CARDIOLOGY	M	9	500

    C.12.1 To display name of all doctors who are in Medicine having more than 10 years of experience.   1

    C.12.2 To display the different departments.   1

    C.12.3 To display minimum consultation fee of female doctors.   1

    C.12.4 To display name and department of male doctors who has no experience.   1

    C.12.5 SELECT AVG(ConstFee) FROM Doctor WHERE NOT Gender='F';   ½

    C.12.6 SELECT Count(Experience) FROM Doctor;   ½

    C.12.7 SELECT Name, Experience FROM Doctor WHERE ID BETWEEN 100 AND 200;   ½

    C.12.8 SELECT SUM(ConstFee),MAX(Experience) FROM Doctor;   ½

C.13   Answer the following questions:

    C.13.1 SELECT 1000 + SQRT (100) ;   1

    C.13.2 SELECT SUBSTR ('RED SCHOOL JHAJJAR', 5 , 3) ;   1

    C.13.3 Difference between CHAR and VARCHAR data type.   1

    C.13.4 Differentiate between COMMIT and ROLLBACK.   1

    C.13.5 What is NULL value in MySQL database? Can you use nulls in arithmetic expression?   1

    C.13.6 What is table alias?   1

QD   **Answer the following questions:**

D.1   Give one social impact of e-Business.   1

D.2   Write three important features of e-Governance. Give URL of one of the commonly used e-Governance portals.   2

D.3   Anuja is creating a form for her practical file. Help her to choose most appropriate controls from List Box, Combo Box, TextField, TextArea, Radio Button, Check Box, Label and Command Buttonfor the following entries from user.   2

    (i)   A message "Enter Marks" in front of a TextField.

    (ii)   An input to choose more than one subjects from a set of given choices.

    (iii)   An input for entering remarks.

    (iv)   An input for accepting Gender.

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