

Sample Paper – 2011
Class – XI
Subject – INFORMATICS PRACTICES

Time Allowed: 3 hours

Maximum Marks: 70

Note:

- (i) This question paper is divided into 3 sections.
- (ii) **Section A** consists of 30 marks.
- (iii) **Section B** and **Section C** are of 20 marks each.
- (iv) Answer the questions after carefully reading the text.
- (v) Give example wherever required.

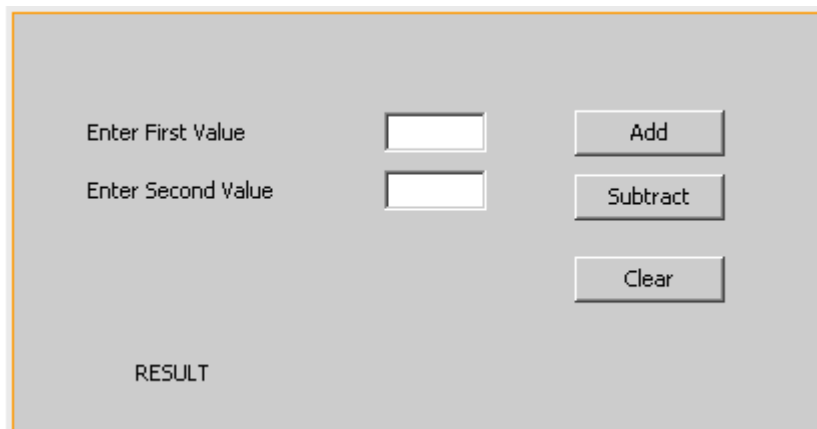
SECTION – A

- 1.** Answer the following questions:
- (a) What are the characteristics of Java? Explain any two. 2
 - (b) Explain the following: 2
 - i) JVM
 - ii) MICR
 - (c) Briefly explain the type of Computers and its purpose. 2
 - (d) Explain the two categories of printers? Write working process of dot-matrix printer. 2
 - (e) What is the function of Memory? What are its measuring units? 2
- 2.** Answer the following questions:
- (a) What is variable? Write down the rules for naming any variable in Java. 2
 - (b) Distinguish between a unary operator and a ternary operator. Give example of each. 2
 - (c) Write short note:- 2
 - i. Digital Certificate ii. Computer Viruses iii. Firewall & Cookies
 - (d) Differentiate between Call by Value and Call by Reference. 2
 - (e) Discuss any two properties of Frame component. 2
- 3.** Answer the following questions:
- (a) What is primary key and foreign key? 2
 - (b) What are advantages of MySQL?(any four points) 2
 - (c) What is the difference between DDL and DML? 2
 - (d) Define the following term 2
 - (i) Degree
 - (ii) Tuple
 - (e) Differentiate between CHAR and VARCHAR data types in MySQL? 2

SECTION – B

4. (a) Read the following case study and answer the questions that follow. Develop an application that performs the operations like addition and subtraction of two values. The sample screen shot is being shown below:

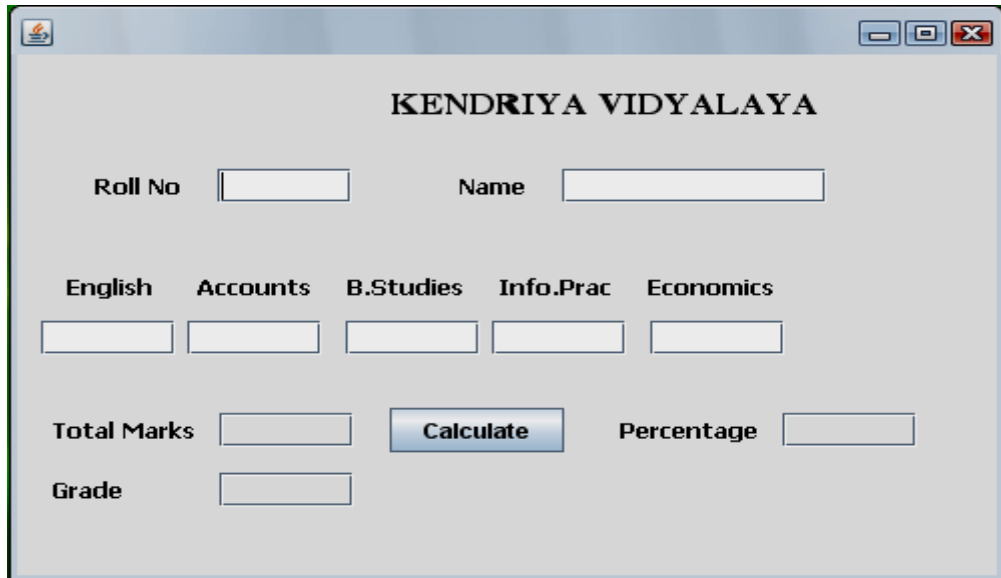
Object Type	Object Name	Description
Text Field	Value1TextField	To enter Numeric Value
	Value2TextField	To enter Numeric Value
Button	AddButton	To Provide corresponding action
	SubtractButton	
	ClearButton	
Label	ResultLabel	To display the result



1. Write the code segment to add two values for the click on ADD button 1½
 2. Write the code segment to add two values for the click on SUBTRACT button 1½
 3. Write the code segment to clear off the values entered by the user and result generated for the click on CLEAR button. 1
- (b) Read the following case study and answer the questions that follow. Develop an application to prepare students grade on the basis of obtained marks of five entered. The criteria have given below for grade evaluation. A sample screen shot is being shown below. 6

Per	Grade
>=90	A
>=75 and <90	B
>=60 and <75	C
>=45 and <60	D
<45	E

Criteria



- Decide what controls are required, on your own
- Decide about the number of variables required and their types on your own.

5 Answer the following questions:

- (a) Find the error from the following code segment and **rewrite** the corrected code **2**
underlining the correction made.

```
int x,y;
x=-20
y=2.9;
z=x+y;
system.out.println(""+z);
```

- (b) Find the **output** of the following code segment: **2**

```
int i,j;
j=0;
for(i=1;i<=5;i++)
{
    System.out.println(j+" ");
    j+=2;
}
```

- (c) Convert the following code segment into switch case construct **2**

```
int Choice;
Choice=Integer.parseInt(ChoiceTextField.getText());
If(Choice == 1)
{
    System.out.println("You Have Opted Arts");
}
else
{
    If(Choice == 2)
    {
        System.out.println("You Have Opted Commerce");
    }
    else
    {
        if(Choice == 3)
        {
            System.out.println("You Have Opted Science");
        }
    }
}
```

```

        else
        {
            System.out.println("Invalid Entry");
        }
    }
}

```

(d) Change the following code using do while loop without affecting the output. 2

```

int i;
for(i=10;i>=1;i- -)
{
    System.out.println(i);
}

```

(e) If the value of X is 42 , find the output in Y for the following statement 1

1. Y=++X;
2. Y=X++;

(f) What output will the following code fragment produce 1

```

1. if the input is 2000
2. if the input is 1000
int val, res, n=1000;
res=n+val>1750?400:200;
System.out.println(res);

```

SECTION - C

6 Consider the following tables EMPLOYEE and write the SQL query for the following requirements. 10

Eid	Name	Dep tid	Qualifi cation	Sex	Points	Basic	DA	HRA	Bonus
1	Deepali	101	MCA	F	20	6000	2000	2300	200
2	Rajat	101	BCA	M	15	2000	300	300	30
3	Hari	102	B.A	M	15	1000	300	300	40
4	Harry	102	M.A	M	40	1500	390	490	30
5	Sumit	103	B.Tech	M	32	8000	900	900	80
6	Jyoti	101	M.Tech	F	12	10000	300	490	89

1. Command for create the above table.
2. Insert any dummy record.
3. Display the Names begin with alphabet "H"
4. Display the records who are females.
5. Display the name and qualification who are "B. Tech."
6. Add one more field for the employee table -DOJ (date of joining)
7. Do not display the records of "Jyoti", "Harry".
8. Display Name, Deptid and Point, NewScore. The NewScore is a product of Point and 12
9. Display the Name, deptid, Basic whose date of joining is after 23/09/2000.
10. Display the records in order according to their Names.

7 (a) Write down the output produced by following queries after execution. (1x5) 5

1. SELECT CONCAT('PRIYA','JAIN') FROM DUAL;
2. SELECT SUBSTR('INFORMATICS PRACTICES',3,4) FROM DUAL;
3. SELECT INSTR('INDOOR OUTDOOR','OR') FROM DUAL;
4. SELECT LENGTH('INFORMATICS PRACTICES') FROM DUAL;
5. SELECT MOD(11,3) FROM DUAL;

(b) Write the Short notes on following

1. E-Governance 2
2. E-Business 2
3. E-Learning 1

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