

Annual Examination 2013
Informatics Practices
Class : 11

Max. Marks: 70

Duration: 3 Hours

SECTION A

Q1) a) Answer the following questions: [4]

- I. What should be done so that only one Radio button may be selected out of many present on a form?
- II. Name the methods used to retrieve text from a text field.
- III. Which symbol is used to add two strings together?
- IV. Which method is used to convert a value to an integer?
- V. What is IDE?
- VI. Write the name given to a textfield by default in Java?
- VII. Abhay does not want that the contents of a textfield in his form should be changed at run time. Which property should he set?
- VIII. What is the difference between `setEditable()` and `setEnabled()` methods?

b) The following code has some error(s). Rewrite the correct code underlining all the corrections made: [2]

```
int i, j=5;
i == j+5;
if (i = j)
{   jTextField1.getText("i and j are unequal");
    jTextField2.setText("they are not equal");

}
otherwise jTextField1.setText("i and j are equal")
```

c) Write the output: [2]

```
int Number1 = 7, Number2=8;
int Second = 73;
if (Number1>0 || Number2>5)
    if (Number1>7)
        jTextField1.setText("Code Worked");
```

```
        else
            jTextField1.setText("Code MightWork");
    else
        jTextField1.setText("Code will not Work");
```

d) Write the output

[2]

```
int i;
    i = 10;
    while( i>=2 )
    {
        System.out.println(i);
        i = i-2;
    }
```

e) Rewrite the correct code underling corrections made.

[2]

```
int p == 1;
    int n = Integer.parseInt (jTextField1.getText());
    for (int i = 1,i<=n , ++i)
    {
        p == p * i;
    }
    jTextField2.setText(" "+p);
}
```

f) Rewrite the following program code using a for loop:

[2]

```
int i = 5;
while (i>3)
{
    i = i-1;
}
```

Q2) Write programs to :

- a) Display first 10 multiples of an input number [4]
- b) Display numbers from 1 to 10 in reverse using FOR loop [4]

Q3)

- a) To input 3 numbers and print the biggest. [4]

A screenshot of a graphical user interface window. It features three input fields at the top, each containing a numerical value: 2, 5, and 8. Below these fields is a single, light blue button. At the bottom of the window, there is another input field containing the value 8.

- b) Input Principal, Time. If Principal is above 10,000, Rate is 6% otherwise it is 5%. Display rate and Calculate and display Simple Interest. [4]

A screenshot of a graphical user interface window titled "Simple Interest Calculator". It contains the following elements:

- "Enter Principal" label followed by an empty input field.
- "Enter Time" label followed by an empty input field.
- A light blue button labeled "Find SI".
- "Rate" label followed by an empty input field.
- "SI" label followed by an empty input field.

- c) Draw a form to enable user to Enter Marks in Test and Number of Experience years. Write code for the following:
 A person is selected if marks are at least 75 or experience is at least 10. Provide a label / textfield in which "Selected" or "Not selected" is displayed. [4]

SECTION B

- Q1) Define the following terms: [7]

- a) Database
- b) DBMS
- c) Tuple
- d) Degree
- e) MySQL

- f) Primary key
- g) Candidate key

Q2) Write an SQL query to create a table 'TEAMS' with the following structure:[2]

Field	Type	Constraint
TeamCode	Varchar(5)	Primary Key
TeamName	Varchar(20)	
TeamLeader	Varchar(20)	
NoOfMembers	Integer	
Isolated	Char(1)	Not Null

Q3) Write output of the following:-

[10]

- a. `Select UPPER('Master');`
- b. `Select POW(5,3)`
- c. `Select Trim(" NETHERLANDS ");`
- d. `Select Length("22 A/36,Jalandhar");`
- e. `Select SUBSTR("EXAMINATION",5,3);`
- f. `SELECT ROUND(6.8895,1);`
- g. `SELECT MID('Discovery Channel',4,6);`
- h. `SELECT DAYOFMONTH ('2011-03-30');`
- i. `SELECT TRUNCATE (7.727,1);`
- j. `SELECT INSTR('COMPUTERS', 'TER');`

Q4) Consider the following table. Write SQL commands for the given queries :[7]

Table Name : GYM

PrCode	PrName	UnitPrice(in Rs)	Manufacturer
P101	Cross Trainer	25000	Avon Fitness
P102	TreadMill	32000	AG Fitline
P103	Massage Chair	20000	Fit Express
P104	Vibration Trainer	22000	Avon Fitness
P105	Bike	13000	Fit Express

- a. Display the names and prices of all the products in the store
- b. Display the names of all the products with price less than Rs.20000.00
- c. Display details of all the products with price in the range 20000 to 30000

- d. Display all products by the manufacturer “Fit Express”
- e. Display all rows sorted in descending order of unit price.
- f. Add a new product: “P106”, “Vibro Exerciser”, 23000, manufacturer : “Avon Fitness”.
- g. Display details of all products with manufacturer starting with A”

Q5 Write SQL commands :

[10]

Employee

ECode	LastName	FirstName	Department
101	Sharma	Amit	Sales
102	Arora	Shiv	Personnel
103	Lakshmi	KS	Accounts
104	Rajlani	Shivika	Accounts
105	Thakral	Satvik	Sales

Department

DCode	DName	Budget
101	Sales	200000
102	Personnel	150000
104	Accounts	300000

- a) Display the last name of all employees.
- b) Display the Deaprtments of all employees, without duplicates.
- c) Display all the data of employees whose last name is "Lakshmi".
- d) Display all the data of employees whose last name is ""Rajlani" or "Sharma".
- e) Display the codes and first name of all employees of Accounts department.
- f) Display department names of departments with budget above 18000.
- g) Display all the data of employees whose First name begins with an "S".
- h) Display department details(from Department table) in descending order of Budget amount.
- i) Change the Department name “Sales” to “Marketing” everywhere in the table “Employee”.
- j) Delete data of the employees in “Personnel” department.