Informatics Practices(065)

Class-XI

Time -3Hours   Marks-70

1. Identify the correct answer::   10 × 1

    i.   Which of the following is a selection construct?

    a. do while Loop   b. for loop   c. while loop   d. None of these

    ii.   Statements in a block statement are enclosed in:

    a. ( ) Round braces   b. [ ] square braces   c. { } Curly braces   d. None of these

    iii.   If x=300 and y=700 then what will be the output of the following expression?

             y + x > 500 ? 150 : 50

    (a) 50   (b) 400   (c) 500   (d) 150

    iv.   int a,b = 10;

             a = 50 % 10;

             b = b + a;

             System.out.print(a);

             System.out.print(b);

             Out put will be-

    a. 50,10   b.0,20   c. 5,10   d.0,10

    v.   The statement i- -; equivalent to

    a. i = i - i;   b. i = i + 1;   c. i = i-1;   d. None of these

    vi.   A tuple is also known as a –

    a.   Table   b. Relation   c. Row   d. Field

vii.   Which MySQL command is used to delete data from a table?

      a.   Delete   b. Drop   c. Truncate   d. Remove

viii. A database

     a. Contains table   b. Is a part of a table c. Is same as a table   d. None of the above

ix. DML means

     a. Data Multiple Language   b. Data Matriculation Language

     c. Data Monitoring Language   d. Data Manipulation Language

(iv) SELECT INSTR('CORPORATE FLOOR','RO'); Result of the query is

     (a) 2   (b) 2,5,14   (c) 2,3   (d) None of these

2.   (a) What is Variable?   1
     (b) what is the purpose of if statement?
 1
     (c)What will be the outputs, after executing the following code:
 2

```
int x, sum = 10;
for (x= 1; x <=5; x++)
{
        sum - =x;
        system.out.println(sum);
}
```

     (d) Write code in Java that takes value for a number(n) in jTextField1 and cube (n*n*n) of it to be displayed
     in jTextField2   2

     (e) How many times will the following loop get executed?
 2

```
int x=5,y=36;
while(x>=y)
{
        x- -;
}
```

     (f) Convert the following into if statement: 1

```
int ch=Integer.parseInt(jTextField1.getText());
switch(ch)
{
```

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```
case 1:jTextField2.setText("Service");break;
case 2: jTextField2.setText("Complaint");break;
case 3: jTextField2.setText("Operator");break;
default: jTextField2.setText("Not a valid entry");
}
```

(g) Rewrite the following code segment by using do-while loop, without changing the output :   2

```
int i=1, sum=0;
while (i<15)
{      sum +=i;
       i +=2;
}
```

(h) Find out the error(s) in the given code and rewrite the corrected code underlining the corrections made.   2

```
int First = 7;
int Second = 73;
First++;
if (First + Second> 90)
        jLabel1.getText( "value is 90" )
else
        jLabel1.getText( 'value is not 90' );
```

(i) Mr. Somani wants to display all the odd numbers between 0 to 10 and for that he has written the following code

```
for(int a=0; a<=10; a=a+2)
        System.out.println(a);
```
  But he is not getting the desired output. Help him by correcting the code to get the desired output.   2

3.   Answer the following questions:
   a.   What will be the contents of jTextField1 after executing the following statement :
```
1
int n=6;
n=n-6;
if(n<0)
        jTextField1.setText(Integer.toString(n));
else
        jTextField1.setText(Integer.toString(n-2));
```
   b.   The following code has some error(s). Rewrite the correct code underlining all the corrections made:
```
2
Int n1, n2=10;
n1=n2-5;
if(n1=n2)
        jTextField1.setText("n1 and n2 are equal");
else
```
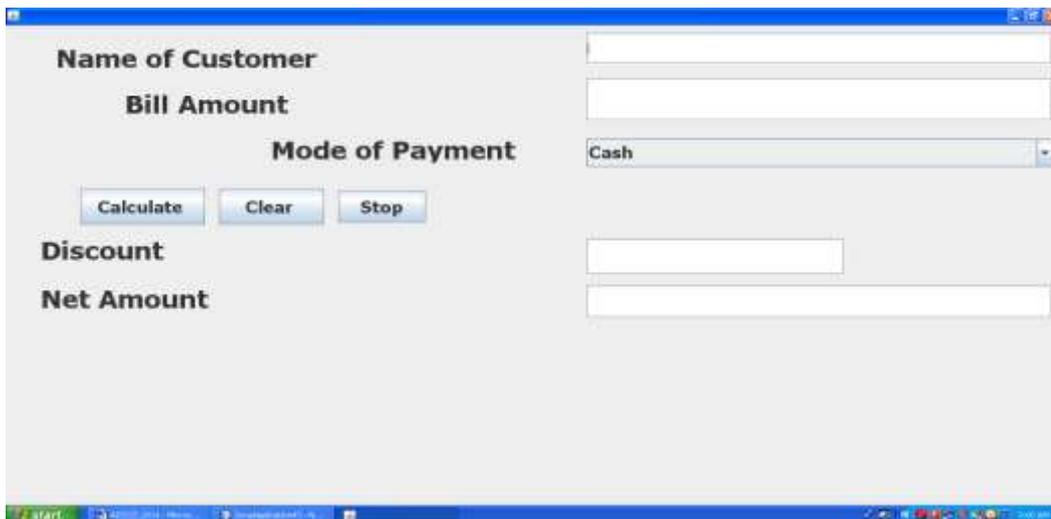
jTextField1.setText("n1 and n2 are not equal");

c. What is the difference between a while loop and a do while loop? 1

d. Create a java desktop application to display all the even numbers between 2 to 40(using for loop). 2

e. Create a java desktop application to display day name against day value inputted by the User(Using switch statement)(e.g. 1-Sunday,2-Monday,….,7-Saturday)

Enter day value   [   ]   Day [   ]   [Display]

3

f. Glamour Garments has developed a GUI application for their company as shown below:The company accepts payments in 3 modes- cheque, cash and credit cards . The discount given as per mode of payment is as follows:

Mode of Payment	Discount
Cash	8%
Cheque	7%
Credit Card	Nill

If the Bill Amount is more than 15000 then customer gets an additional discount of 10% on Bill Amount.

(a) Write the code to make clear all textfields (Clear button). 1

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b) When Calculate button is clicked the discount and net amount should be calculated and display it as per given criteria. 4

(c) Close the application when Exit button is clicked and display a " Thank you" message.

4..(i) If a database "KEA" exists, which MySQL command helps you to use that database?   1

(ii) 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 not between 100 to 150 wrote the following query:

SELECT * FROM BOOK WHERE PRICE BETWEEN 100 TO 150 ;

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

(iii) The LastName column of a table-Directory is given below:

LastName
Batra
Sehgal
Bhatia
Sharma
Mehta

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

(a)   Select length(lastname) from directory where LastName like "%a";
(b)   Select Instr(lastname,'S") from directory where LastName not like "a%";
(c)   Select left(lastname,2) from directory;
 (v) A table Lab in a database has 2 columns and 3 rows in it. What is its degree? What will be its degree if 12 rows are added in the student table?   1

(vi) Define- Primary Key and Candidate Key.   2

(v) Select char(77,121,83,81,76): What will be the output?   1

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(vi) Write command to display name of the weekday. 1

(vii) Write command to display the system date. 1

(viii) Write a command to display first three characters of 'Information'. 1

(ix) A numeric data field price stored a value 40409.97. Write command in SQL to round off the price up to 1 decimal place. 1

(vi) The contents of Item_no and Cost columns of a table "ITEMS" are given below: 2

Item_no	Cost
101	5000
102	6000
103	NULL
104	NULL
105	6000

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

(a)SELECT Cost FROM ITEMS where between COST>5000 and Item_no<102;

(b)SELECT COST FROM ITEMS WHERE Item_no>103;

5. (i)Create the table-Customer as per following structure: 2

Column Name	Data Type/Size
Cust_Id	integer
C_Date	date
Cust_Name	char(20)
Cust_Address	varchar(30)
Amount	decimal(7,2)
Cust_Phone	integer(10)

(ii) Insert six(6) rows into above table.   2

Write the queries for the above table: *1×6*

(iii) To list the distinct Cust_Address.

(iv) To modify the name of the customer of cust_id=2 to Vikash .

(v) To arrange the data of the above table in ascending order of Cust_Address.

(vi) To display customer details whose name starting with 'S' and amount>23000.50;

(vii) To display customer's name who have their amount in the range of 10000.00 to 20000.00

(viii) To remove the entire contents of customers.

6.Write the output of the followings: 5×1

     (a) Select truncate(7.3456,2);

     (b) Select dayofmonth("2015-02-23");

     (c) Select month("2010-11-12");

     (d) Select round(7.3456,3);

     (e) Select right("Thank you",3);

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