

SURE SHOT QUESTIONS

Subject:- Informatics Practices Class- XII

Long Questions:-

1. Deb Bastralaya 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	12%
Cheque	9%
Credit Card	Nil

If the Bill Amount is more than 18000 then the customer gets an additional discount of 10% on Bill Amount.

(i) Write the code to make the textfields for Discount (named txtDisc) and Net Amount (named txtNetAmt) uneditable.

(ii) Write code to do the following:

(a) When "Calculate Discount" button is clicked the discount should be calculated as per the given criteria and it should be displayed in the discount textfield. Calculate Net Amount button (named btnCalcNetAmt) should also be enabled.

(b) When "Calculate Net Amount" button is clicked the net amount should be calculated and it should be displayed in the net amount textfield.

2. Mr, Ram a UDC in a KV , created a table 'salary'. HRA is a column of this table . To find the details

of the staff members who did not get HRA. He wrote the following query:

```
SELECT * FROM Salary WHERE HRA = NULL ;
```

Help Ram to run this query by removing the error from the query and rewriting it.

3. In a database there are two tables " STOCK" and " DEALERS" as shown below:

Table: STOCK

ItemNo	Item	Dcode	Qty	UnitPrice	StockDate
5005	Ball Pen 0.5	102	100	16	31-Mar-10
5003	Ball Pen 0.25	102	150	20	01-Jan-10
5002	Gel Pen Premium	101	125	14	14-Feb-10
5006	Gel Pen Classic	101	200	22	01-Jan-09
5001	Eraser Small	102	210	5	19-Mar-09
5004	Eraser Big	102	60	10	12-Dec-09
5009	Sharpener Classic	103	160	8	23-Jan-09

Table: DEALERS

code	Dname
101	Reliable Stationers
103	Classic Plastics
102	Clear Deals

(i) Identify the foreign key in the table STOCK.

(ii) To display item from the stock table and Dname from the dealers table for the corresponding matching dealer code.

4. Mr. Virat created a table "Student" in MySQL. He forget to set the PRIMARY KEY for the table.

Which command should he used to set it for the field "Rollno".

5. Write a method in Java that takes a number as parameter and return sum of its divisors.
6. What are the use of the following tags-
``, `<HEAD>`, `<SUP>`, `<P>`
7. What is primary key? How is it different from candidate key? Explain with the help of suitable example.

8. Rewrite the following code using for loop.

```
int i=0;
while(++i<10)
{
    if( i==5)
        break;
    System.out.println(i++);
}
```

9. The following code has some error(s). Rewrite the correct code underlining all the corrections made.

```
int x=3;
switch(x);
{
    case 1: System.out.print("Yes its One");
    case >2:
        System.out.println("Yes its more than Two");
        break;
    case else: System.out.print("Invalid Number");
}
```

10. What will be the content of jTextField1 and jTextField2 after executing the following code:

```
String st="India is the great";
jTextField1.setText(st.replace("India","Bharat"));
jTextField2.setText(st.substring(7));
```

11. If a database "School" Exists , which MySql command help you to start working in that database.
12. Write output of the following SQL queries :

i) `SELECT TRUNCATE(23.72,-1);`

ii) `SELECT DAYOFMONTH('2015-11-20');`

iii) SELECT SUBSTRING('India ki awaz',8,6);

iv) SELECT CONCAT(LOWER('Class'),UPPER('xii'));

13. Create table Employees as per following table instance chart.

Column Name	EmpID	EmpName	EmpAddress	EmpPhone	EmpSal	DeptID
Key Type	Primary					Foreign
Nulls/Unique		NOT NULL				
Fk Table						Department
Fk column						Dept_ID
Datatype	NUMBER	VARCHAR	VARCHAR	VARCHAR	NUMBER	VARCHAR
Length	6	20	30	10	9,2	2

14. In a database there are two tables 'LOAN' and 'BORROWER' as shown below :

LOAN

Loan_Number		Branch_name	Amount
L-170		Downtown	4000
L-230		Redwood	2500
L-260		Perryridge	1700

BORROWER

Customer_ID	Customer_Name	Loan_number
100	Jones	L-170
101	Smith	L-230
102	Hayes	L-260

- Which column in the 'BORROWER' table is the foreign key ?
- How many rows and how many columns will be there in the Cartesian product of these two tables ?

15. Abhishek works for a Sports company. He wants to create controls on a form for the following functions. Choose appropriate controls from Text Field, Label, Radio Button, Check box, List ,

Combo Box , Button and write in the third column.

S.No.	Controls used to	Control
1	Enter Team name	

2	Select Sports type	
3	Enter number of members	
4	To save the details	

16. The following code has some error(s). Rewrite the correct code underlining all the correction made :

```
Integer a ; b = 20 ;
```

```
Do{
```

```
    a= B*2 ;
```

```
    b= b+10
```

```
} WHILE(b>40)
```

17. What will be displayed in resultTA after executing the following statement ?

```
resultTA.setText("India\nis\the\nbest");
```

18. How is primary key constraints different from Unique constraint. Explain with example.

19. Find the output of the following code :

```
int num= 736, reb ;
```

```
while(num !=0)
```

```
{
```

```
    reb= num%10;
```

```
    System.out.print(reb);
```

```
    num= num/10;
```

```
}
```

20. While working in netbeans , Gangaram included two option buttons (Male and Female) in the form. Now he wants that all the buttons should work in groups , i.e. Selecting one button other buttons will be deselected. Which property of listbox control should he use to do this ?

21. Write html code for the following :

To provide the hyperlink <http://www.cbse.nic.in>

22. Input a name from a text field and print it by adding "Welcome" before a name in a label.

23. Given a string object namely phy having value as "65" stored in it. What will be result of following code ?

```
JOptionPane.showMessageDialog(null, " " + (phy.length() + Integer.parseInt(phy)));
```

24. Find the output of the following program :-

```
String s1= IN$D$I$A$$$"; // $Represents a space
```

```
String s2;
```

```
s2= s1.trim( );
```

```
int lenn= s2.length( );
```

```
lenn++;
```

```
Sysemtem.out.println(lenn);
```

25. Write a java function to return the cube of a number.

26. Write Java code that takes principal amount, rate and time using JOptionPane and print simple interest .

27. How many times the following loop runs

```
Int i,s=0;
```

```
for(i=0;i<=10;i-=2)
```

```
{
```

```
s=s+i;
```

```
i=i+4;
```

```
}
```

28. Differentiate HAVING and WHERE clause with suitable example.

29. What will be the contents of the text1 and text2 after the following code is executed.

```
String text1,text2;
```

```
text1 = " KendriyaVidyalaya";
```

```
text2.setText(text1.length()+" ");
```

```
text1=text1.concat("Sangathan");
```

30. What will the content of TextField after executing the following statements.

```
String S="vidyalaya";
```

```
jTextField1.setText(s.substring(0,1).toUpperCase()+s.substring(1));
```

31. What will be the output of the following code:

```
int A = 15, B ;
```

```
for (B=2; B<=6; B+=2)
```

```
{
```

```
A= A + B;
```

```
}
```

```
JOptionPane.showMessageDialog (null, "A:"+A+"B:"+B+"") ;
```

32. Miss Nisha created a table JOURNEY with 3 rows and 5 columns. She added one more row to it and deleted 4 columns. What is its cardinality and Degree of the table JOURNEY?

33. Consider the table STUDENT and SQL statements

34. Admno	RollNo	Class	Student name	Fathers Name
4001	1	XII	Ram	Raj
4002	1	XI	Ravi	Rao
4003	2	XI	Rakesh	Ramana
4004	2	XII	Rajini	Raghav

Identify Candidate keys and Primary Keys for the above table

34. Convert the following code into an equivalent do..while loop.

```
int i,j,C=2;
for( i=10,j=20; j>=10; j =j+2)
{
    i = i +C;
    System.out.println(i);
}
```

35. What do you mean by E-governance ? Write any two Web addresses of e-governance.

36. Consider the following table Employ, Write SQL Commands for i to iv and output for v and vi

No.	Name	Age	Department	Date ofJoin	Salary	Sex
1	Jugal	33	Computer	10/01/97	12000	M
2	Sharmila	31	History	23/03/98	20000	F
3	Sandeep	32	Maths	12/12/96	20000	M
4	Sangeeta	35	History	01/07/99	40000	F
5	Rakesh	42	Maths	05/09/97	25000	M
6	Shyam	50	History	27/06/98	30000	M
7	Shiv Om	44	Computer	25/02/97	21000	M
8	Shalaka	33	Maths	31/07/97	20000	F

i) Display details of all female history teachers

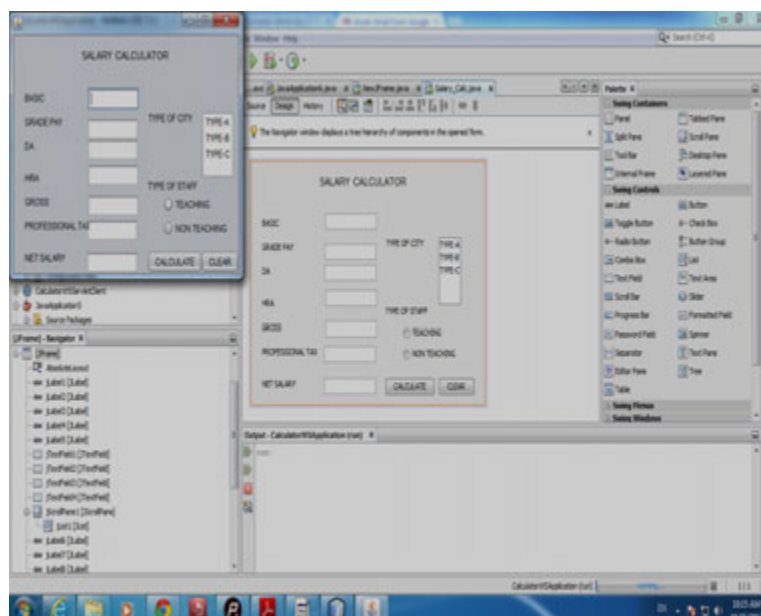
ii) Count the number of teachers whose name have "h" as second letter

iii) Display Name, age, Salary in the descending order of age and ascending order of salary

iv) Increase the salary of all Computer teachers above 40 years by Rs 1000

37. Compare PAN, LAN, MAN, WAN in terms of Speed and Error rate.

38. Mr. Amit developed the following GUI application for Calculating Salary.



Help him to write coding for the following

- i) Calculate Salary as per the following criteria

BASIC PAY=BASIC+GRADE PAY

DA= 90% OF BASIC PAY

Display the DA in its appropriate textfield.

- ii) HRA should be calculated according to the type of city
(Chosen from the listbox)

Type of City	Percentage
TYPE-A	30% OF BASIC PAY
TYPE-B	20% OF BASIC PAY
TYPE-C	10% OF BASIC PAY

GROSS=BASICPAY+DA+HRA

Professional tax should be assigned as Rs. 300/- for Teaching Staff and Rs. 0/- for Non-teaching

tax

NET SALARY= GROSS-PROFESSIONAL TAX

Display all calculated values in appropriate text fields.

- iii) Clear button should clear all textfields.

39. Expand the following terms?

(a)SMTP (b)NIC (c) FLOSS (D)VIRUS

40. What will be values of x and y after execution of the following code

```
int x, y = 0;
for( x= 1; x<=5; ++x)
{
    y=x++; --y;
}
```

41. What is difference between these queries?

Query 1	Query 2
Select count(*) from shop	Select count(shop_id) From shop

42. Name of keyword used in MYSQL?

- (i) To search null entry (ii) to allow duplicate value in query

43. The Movie_Name Column of a table MOVIE is given below:

Movie_Name
Kal Ho na ho
Singh is King

Bodyguard
Singham
Kal aaj aur Kal

Based on the information find the putput of the following queries:

- i. Select Movie_Name from MOVIE where Movie_Name Like ‘_al%al’;
- ii. Select Movie_Name from MOVIE where Movie_Name Like ‘%ng%’;

44. How many times will the following while loop executed?

```
int l=50,m=0; while(l<70)
{
    m=m+l; l=l+2;
}
```

45. Write the following code using if-else if without change in output

```
switch (day) { case 1: case 2: case 3: case 4:
case 5: System.out.println("working day"); break;
case 6:
case 7: System.out.println("holiday"); break;
default:
System.out.println("not a week day");}
```

46. What is the value of A & B after the execution of the following code:-

```
int A=200,B=6; while(B<=12) {A+=B;
B=B+2;}
JOptionPane.showMessageDialog(this,"A:"+A+"B:"+B+" ");
```

47. write a SQL command to create a table Electronic with following structure

Attribute	Type	Constraint
Item_id	Int	Not null ,primary key
Item_name	Varchar(25)	Not null
Type	Varchar(10)	
Manufacture	Varchar(10)	
Price	Int	
Number_of_item	Int	

48. Mr.Khan working as Manager in Unique Enterprises want to create a form in NetBeans to take various input from user & shown some message .Choose appropriate controls from Combo box ,Label, TextField, ListBox, TextBox, RadioButton, CheckBox, TextArea and CommandButton

S.no.	Function
1	Display message
2	Select Hobby of customer
3	Select City from list
4	Get all details from customers

- 49.Consider the table CRICKET given below .Write the commands in SQL for (i) to (iv)

S I. N O	PLAYER	A G E	CITY	RUN S	WICKET S
1	Sachin Tendulkar	39	Mumbai	15216	105
2	Virender Sehwag	37	Delhi	6244	82
3	M.S.Dhoni	32	Rachi	5219	
4	Rahul Dravid	37	Banglor e	9325	11
5	Yuvraj Singh	32	Mumbai	8244	126

- (i)To display all the information about the players who lived in Mumbai city.
(ii)To display Players name, age and runs who have scored more then 8000 runs.
(iii)To display Player name and city of those players who have not taken any wickets.

50. Write a java function to return greatest number amongst three numbers.