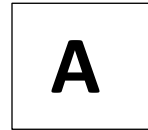




VidyaGyan School, Bulandshahr



Pre Board- I
Session: 2017-18
Class: XII

Time : 3 Hrs Subject : Informatics Practices(065)

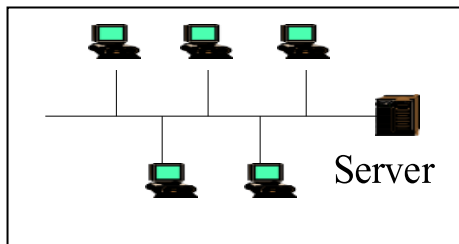
MM : 70

1. (a)(i) It is a technology on computer networks whose purpose is to prevent unwanted networking connection according to some filtering/blocking rules. What is it? 1

(ii) Two neighboring hospitals at a distance of 125 meters from each other decide to join their LAN's using UTP cable so that they can share their e- contents. But due to loss of signals in between they were unable to share resources. Which device can be used to overcome the problem? 1

(b) Identify the topology shown below.

Write any one advantage and any one disadvantage of this topology. 2



(c) Who are Hackers? How they are different from Crackers? 2

(d)What do you mean by snooping and Eavesdropping? 2

(e) What are Dynamic fonts? How they are different from Static fonts? 2

2 a)(i) Ramesh wants to disable some of the jTextField during runtime. Suggest him the suitable method to be used for this purpose. 1/2

(ii) "The variable/expression in the switch statement should either evaluate to an integer value or String value." State True or False.

1/2

(b) Write Java code to assign the value 700 to variable x. decrease the value of x by 100 and store it in variable y.

1

(c) Write the following switch statement using if...else...if statement

2

```
int option=Integer.parseInt (JTextField1.getText ());
switch(option)
{
    case 1: JTextField2.setText ("Regular Employee" );
            break;
    case 2: JTextField2.setText ("On Probation" );
            break;
    case3: JTextField2.setText("Visiting Faculty ");
            break;
    case 4: JTextField2.setText ("On Contract ");
            break;
    default : JTextField2.setText ("Invalidoption");
}
```

d) Answer the following:

2

(i) List the two values of method (attribute) of FORM tag in HTML
<FORM method=" ">

(ii) Identify tag for inserting an empty line on Web Page.

e) Differentiate HTML and XML?

2

f) How many times the loop runs:

2

```
int i,s=0;
for(i=0;i<=10;i+=2)
{
    s=s+i;
    i=i+4;
}
```

3(a) Identify the error? Also write correct Mysql query
DELETE ALL FROM TABLE EMP;

1

(b) Consider the Table 'KVSJLP'

1

KVNAME	LOCATION
KV NO.2 GCF	JALPAIGURI
KV VSN	NAGPUR
KV AJNI	NAGPUR
KV COD	JALPAIGURI
KV NKJ	KANPUR

Write the Mysql Command to obtain the following Output:

LOCATION
JALPAIGURI
JALPAIGURI

(c) Babu Bhai created a table CUSTOMER with C_Name, Address and City column. Later he wants to add Phone_No column in it. Name the command by which he can add the column.

1

d) Write the UPDATE command to decrease the salary (column name: E_SALARY) by 1000 of all the employees who have not achieved sales more than 200000 (Column name : SALES). The table's name is 'HINDALCO'.

1

e) Rahul is unable to understand the difference between using conditions with 'Where' and 'Having' clause of Select command. Can you explain difference between them?

2

f) Consider the table Player

2

PlayerID	Name
1	ViratKohli
2	Yuvraj Singh

3	Rohit Sharma
---	--------------

The following Mysql Queries are executed on the above table:

Insert into Player values(4,'Shikhar Dhawan');

Commit;

Update Player set name='AjinkyaRahane' where PlayerID=3;

Savepoint A;

Insert into Player Values(5,'Suresh Raina');

Savepoint B;

Insert into Player Values(6,'R. Saha');

Savepoint C;

Delete from Player Where PlayerID=6;

Savepoint D;

Rollback to B;

What will be the Output of the following Mysql query now:

Select * from Player;

(g) Differentiate: 2

- (i) Primary Key Constraints and Unique Key constraints
- (ii) Drop and Delete command.

4(a) Which Swing control is invisible on the Frame. 1

(b) Explain the concept of polymorphism. 1

(c) What will be displayed in JTextArea1 after the execution of the following code? 1

```
int G=1;
do {
    JTextArea1.setText(Integer.toString(G++));
    G=G+1;
} While (G<=5);
```

(d) Give the value of x after executing following Java code. 2

```
int a=10,b=12,x=5,y=6;
```

```
while(a<=b)
{
if(a%2==0)
x=x+y;
else
x=x-y;
a=a+1;
}
```

(e) Rewrite the following program code using a While loop:

2

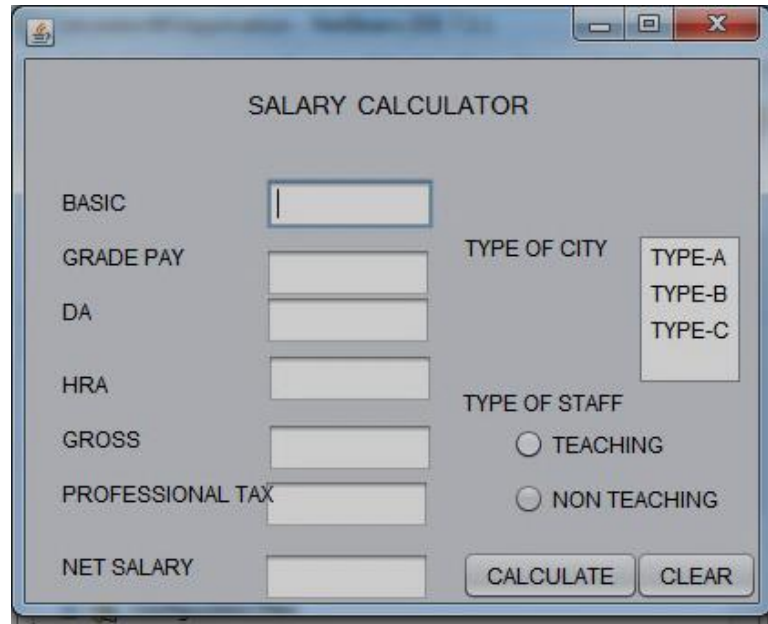
```
int i,j;
for(i=1;i<=4;i++)
{
for(j=1;j<=i;++j)
{
System.out.print(j);
}
System.out.println();
}
```

(f) Find the errors from the following code and rewrite the corrected code underling the corrections.

2

```
int y=3;
switch(y)
{
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);
}
```

(g) 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 2

BASIC PAY=BASIC+GRADE PAY

DA= 90% OF BASIC PAY

Display the DA in its appropriate textfield.

- ii) HRA should calculated according to the type of city (Chosen from the listbox) 2

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 text fields. 2

5(a) Find out the output of the following- 2

- (1) Select Truncate(1234.78,0);
- (2) Select Round(1234.78,-1);
- (3) Select substr("Jabalpur",6,3);
- (4) Select upper(left("Vidyalaya",3));

(b) Consider the table STUDENT and MySQL statements 2

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

(c) Consider the following table Employ, Write SQL Commands for i to iv and output for v and vi 6

No.	Name	Age	Department	DateofJoin	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

v) Select Name, Department from Employ where year(DateofJoin) in {96,98} and sex='F';

vi) Select Department, Sum(Salary) from Employ Group by Department having count(Department)<3;

6 (a) Write SQL to Create the following table BANK with specified constraints

2

Column Name	Datatype	Constraint
BankCode	Character of 10 size	Primary Key
Branch	Character of 30 size	UNIQUE
City	Character of 30 size	NOT NULL
Budget	Numeric(7,2)	

b) Can we change the column name using Alter table command? Change the data type of Budget column of above mentioned BANK Table to Numeric(12,2) and add default value to 1000000. 2

c) Consider the tables HANDSET AND CUSTOMER

HandSet

SetCode	SetName	TouchScreen	PhoneCost
N1	Talk 2G	N	5000
N2	Talk 3G	Y	8000
B1	SamWaad	N	14000

Customer

CustNo	SetNo	CustAddress
1	N2	Delhi
2	B1	Mumbai
3	N2	Mumbai
4	N1	Kolkata
5	B1	Delhi

- i) Display the CustNo, Custaddress and corresponding Setname 2
- ii) Display the customer details for each customer who uses a Talk handset 2
- iii) Count the number of customers in Mumbai who purchased Touchscreen set 2

7 a) Write any two Web addresses of e-governance.

1

b).How has popularity of e-Business benefited a common man? Write domain name of one popular e-Business. 2

c) Mr. Akash work for a school. He wishes to create controls on a form for the following

2

Sr.No.	Function	control
1	To display Admission Form heading	
2	Select Stream	
3	Enter date of birth	
4	Select Subjects	

Choose the appropriate control from Textbox, Label, Check box, Listbox, radio button, Combo box, and button