

SUB: INFORMATICS PRACTICES  
Class : XI

Time allowed : 3 hours  
Max. Marks : 70

1.
  - a. What is the function of a bus? [1]
  - b. Differentiate between single user and multi user operating system. [2]
  - c. what do you mean by BIOS ? [1]
  - d. write any four safety measure you follow to protect your computer. [2]
  - e. What is cyber crime? Give four examples. [2]
  - f. Write one difference between virus and worms. [1]
  - g. Name two UTILITY software . [1]

2.
  - a. Which property of palette ListBox is used to enter the list of items while working in NetBeans. [1]
  - b. What is the difference between the use of JTextField and JPasswordField? [1]
  - c. Name the method to display a specified message in a dialog box. [1]
  - d. What is the purpose of break statement in a switch statement ?  
Give suitable example to illustrate the same [2]
  - e. Rewrite the following **while** loop into **for** loop [2]

```
I=0, sum =0;
while(I <20)
{
    sum += I ;
    I = I +2 ;
}
```

- f. Write Java code for the following : [4]
  - i. Write Java code that takes value of Temperature in Celsius in jTextField1 and convert it into Fahrenheit And display it in jTextField2
  - ii. Write Java code that takes value for a number (n) in jTextField1 and cube (n\*n\*n) of it to be displayed in jTextField2.

3.
  - a. What will be the content of jTextField1 , jTextField2 and str1 after the execution of the following statements.

- i. `TextArea1.setText("WORK\t MORE\n GETMORE");` [1]
- ii. `int Num = 6;` [1]  
`Num = Num + 1;`  
`if ( Num > 5)`  
`TextField1.setText(Integer.toString(Num));`  
`else`  
`TextField1.setText(Integer.toString(Num+5));`
- iii. `String str1, str2;` [2]  
`str1 = " dear friend";`  
`str2 ="Hello";`  
`str1 = str2.concat(str1);`
- b.
  - i. Rewrite the following program code using a Switch statement. [2]  
`if (code ==1)`  
`Day = "Monday" ;`  
`else if (code == 2)`  
`Day = "Tuesday" ;`  
`else if ( code ==3)`  
`Day = "Wednesday" ;`  
`else if ( code == 4)`  
`Day = "Thursday" ;`  
`else`  
`Day = "No Match" ;`
  - ii. What will be the displayed in `TextField1` and `textfield2` after the execution of the following code. [2]  
`int last , first=3, second = 5;`  
`last = first + second ++;`  
`Jtextfield1.setText(Integer.toString(last));`  
`Jtextfield2.setText(Integer.toString(second ));`

C.  
 An electronic shop has announced the following seasonal discounts on the purchase of certain items.

Shopping amount	Discount on TV	Discount on music system
0-25000	5%	10%
25001-50000	10%	20%
More than 50000	15%	30%

# SHOPPING MALL

ITEMS

☐ TV

☐ MUSIC SYSTEM

ENTER SHOPPING AMT

DISCOUNT

NET

CLEAR ALL

CALCULATE

EXIT

Write the java code for the following:

- i. Compute discount and print the net amount to be paid by a customer on click of command button "CALCULATE" based on the above table .  
[Hint: Discount = ( Discount rate / 100) \* shopping amount  
Net amount = shopping amount - discount).] [4]
- ii. To clear all text fields on click of command button CLEARALL [1]
- iii. To stop the execution and exit from application on the click of command button EXIT [1]

4.

- a. What is the keyword is used to eliminate redundant data ? [1]
- b. What is the difference between CURDATE() and DATE() functions? [1]
- c. Define alternate key? [1]
- d. What is DBMS? [1]
- e. What is primary key? Explain with example. [2]
- f. Differentiate between DDL and DML commands in MySQL [2]

5.

- a. Write the output that the following statements will produce : [4]
  - i. SELECT ROUND(7.3456, 2);
  - ii. SELECT DAYOFMONTH('2009-08-25');
  - iii. SELECT MONTH('2010-02-26');
  - iv. SELECT RIGHT('Informatics', 4);
- b. Write MySQL statement for the following :
  - i. Using the three separate words "We," "study," and "MySQL," [1]

ii. Use the string "Internet is a boon" and extract the string "net". [1]

iii. To create the following Table student [2]

Name of the column	Type	size
Name	Char	20
Rollno	Integer	4
Class	Char	4
Dob	date	

c. Name the MySQL command for the following purpose: [4]

- To delete only rows
- To add a new column
- To add a new rows
- To change values in a data base.

6

a. Consider the following table FITNESS with details about fitness products being sold in the store. Write SQL commands for (i) to (vi) [6]

Table FITNESS

CODE	NAME	PRICE	MANUFACTURE
1	Treadmill	21000	Coscore
2	Bike	20000	Aone
3	Multi gym	14000	Reliable
4	Massage chair	5500	Regrosene
5	Belly vibrator belt	6500	Ambaway
6	Treadmill	22000	Abc

- To display all products with price more than 20000
- To display the names all products by manufacture "Aone".
- To change the price of all products by applying 25% discount reduction
- To add new row for product with details:  
7, "VIBRO EXCERCISER", 28000, "XYZ"
- To display whole table in descending order of price
- To show all products whose name starts with "T"

b. Write the output of the following based on the table FITNESS [4]

- Select \* from fitness where price between 2000 and 22000
- Select distinct name from fitness;
- Select price from fitness where price <10000;
- Select \* from fitness where manufacture = "Abc";

7.

a. What social impact does e-Governance have on society? [1]

b. Write two important features of e-Business.