

CLASS XII

SAMPLE PAPER-065

INFORMATICS PRACTICES

TIME ALLOWED : 3 Hrs

M.M : 70

- 1.(a) Which communication channel is suitable for communication in hilly areas and why? (2)
- (b) With what aim UNICODE was developed? (1)
- (c) Give one example of URL and one example of domain name. (1)
- (d) What is the purpose of a server in a network? Name any two types of servers. (2)
- (e) Name one open source Indian operating system. (1)
- (f) What do the following top level domains signify? (1)
(i) .com (ii) .org
- (g) Expand the following (i) GSM (ii) WLL (1)
- (h) In how many different ways can you type Indian Script on a computer? (1)
2. (a) Name any two commonly used methods of JComboBox control. (1)
- (b) What is difference between the use of isSelected() and setSelected() methods used with jCheckBox control in java? (1)
- (c) Write a **while** loop code in java to display "CBSE" 5 times on separate lines on the screen. (2)
- (d) Name any two attributes used in tag of HTML. (1)
- (e) Write one similarity and one point of difference between
 and <HR> tags of HTML. (1)
- (f) What will be the value of **t** and **s** after execution of the following code: (1)
- ```
int t;
int s;
s=6;
t=(8 * s++) % 7;
```
- (g) List two purposes of **+** operator in java. (1)
- (h) Identify the error in the following HTML code. Rewrite the correct code. (1)  
<UL TYPE= "a" START=4>
- (i) Write a method (function) in Java that takes an integer as parameter and return sum of its divisors. (2)

(j) Give the output of the following code: (1)

```
int x=0;
while(x++ <=5)
{
System.out.print("x\t");
}
```

3.(a) Consider the following table GARMENr and answer the following questiuons: (2)

| GCODE | DESCRIPTION    | PRICE | FCODE | READYDATE  |
|-------|----------------|-------|-------|------------|
| 1023  | FORMAL SHIRT   | 1150  | F03   | 2012-12-19 |
| 1001  | INFORMAL SHIRT | 1250  | F01   | 2014-01-12 |
| 1024  | BABY TOP       | 750   | F02   | 2013-06-06 |
| 1019  | FROCK          | 750   | F03   | 2015-06-06 |

- (i) Name the Candidate Keys.  
(ii) What is cardinality of the table GARMENr.

(b) Write a SQL command to delete a column 'Remarks' from table STUDENT. (1)

(c) Add a NOT NULL constraint in the table STUDENT in which a column STREAM is declared as Varchar(20) and NULL. (1)

(d) Which character is used in the SELECT statement to return all the columns in the table student? (1)

(e) Define referential integrity constraint with reference to RDBMS. What is its use? (2)

(f) What do you mean by the term **DBMS**. Write any of its two advantages. (1)

(g) Write SQL command to create a SAVEPOINT named as A1. (1)

(h) Rewrite the following SQL statement after correcting error(s). Underline the correction(s) made.  
INSERT IN STUDENT(RNO,NAME) VALUE(5, 'RAMITA'); (1)

4. (a) What is the use of keywords (i) extends (ii) implements? (1)

(b) Find the output of the following code snippet: (2)

```
String A="Audio Visual";
String B= A.toLowerCase();
for(int i=0; i<B.length();i++)
{
String Str1=B.substring(i,i+1);
jTextArea1.append(Str1+ " ");
}
```

(c) How many times will the following loop execute? What will be the value of y ? (1)

```
int x=2,y=50;
do
{
++x;
y -= x++;
```

```
}while(x<=10);
```

(d) What will be the output of the following code? Also name the constructor function if any. (2)

```
public class EMP{
public EMP(int x, float y)
 {
 float res=calculate(x,y);
 System.out.println("result"+res);
 }

float calculate(int L,float B)
 {
 show();
 return L*B;
 }

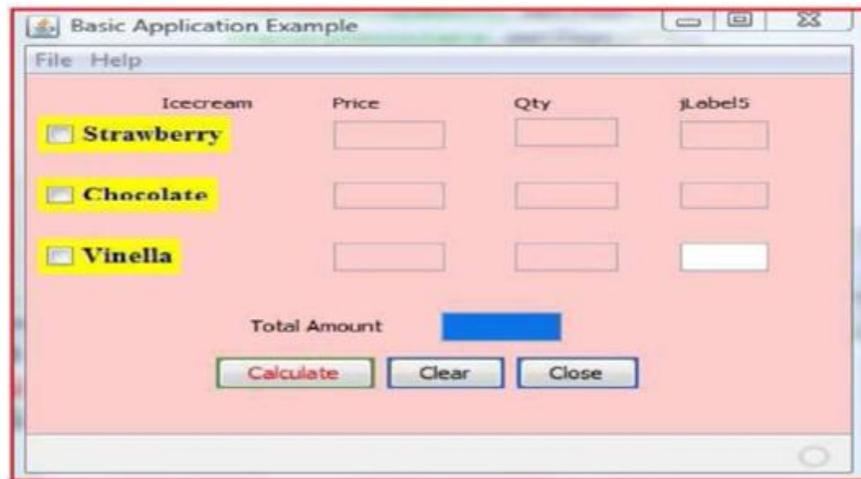
void show()
 {
 System.out.print(" Output Is=");
 }

public static void main(String args[])
 {
 EMP obj = new EMP(5,6.5);
 }
}
```

(e) Rewrite the following program code using **if else if** statement (1)

```
String remarks;
int num= Integer.parseInt(jTextField1.getText());
switch(num)
{
 case 0: remarks= "You have not won any point";
 break;
 case 1: remarks= "You have not won one point";
 break;
 case 2: remarks= "You have not won two points";
 break;
 default: remarks= "All the best";
}
```

(f) Assume the following interface built using Netbeans used for bill calculation of an ice-cream parlor. The parlor offers three varieties of ice-cream – vanilla, strawberry, chocolate. Vanilla ice cream costs Rs. 40, Strawberry Rs. 45 and Chocolate Rs. 60. A customer can chose one or more ice-creams, with quantities more than one for each of the variety chosen. To calculate the bill, parlor manager selects the appropriate check boxes according to the varieties of ice-cream chosen by the customer and enter their respective quantities.



**Write Java code for the following:**

- (i) On the click event of the button 'Calculate', the application finds and displays the total bill of the customer. It first displays the rate of various ice-creams in the respective text fields. If a user doesn't select a check box, the respective ice-cream rate must become zero. The bill is calculated by multiplying the various quantities with their respective rate and later adding them all. (3)
  - (ii) On the Click event of the clear button all the text fields and the check boxes get cleared. (2)
  - (iii) On the click event of the close button the application gets closed. (1)
5. Write two points of difference between DDL and DML commands. (2)
- (b) Giving suitable example write any one way to assign comments in MySQL. (2)
- (c) Consider the following table named "SBOP" with details of account holder. Write commands of MySQL for (i) to (iv) and output for (v) to (vi) (1x6=6)

**TABLE:SBOP**

| Accountno | Name       | Balance  | DateOfopen | Transaction |
|-----------|------------|----------|------------|-------------|
| SB-1      | Mr.Akhil   | 15000.00 | 2011-02-24 | 7           |
| SB-2      | Mr.Sham    | 23567.89 | NULL       | 8           |
| SB-3      | Mrs.Sakshi | 49700.00 | 2012-02-04 | 5           |
| SB-4      | Mr.Gopal   | 23812.35 | 2013-09-22 | NULL        |
| SB-5      | Mr.Dennis  | 63459.80 | 2009-11-10 | 15          |

- (i) To display Accountno, Name and DateOfopen of account holders having 8 or more transactions.
- (ii) To display all information of account holders who have performed some transactions.
- (iii) To add another column Address with datatype and size as VARCHAR(25).
- (iv) To display the month's day with reference to DateOfopen for all account holders.
- (v) SELECT NAME,TRANSACTION FROM SBOP where Name Like "%L";
- (vi) SELECT ROUND(BALANCE,-3) FROM SBOP.

6. (a) How is Primary key constraint different from Unique key constraint? (1)
- (b) Write two points of difference between Single Row and Aggregate functions of MySQL. (1)
- (c) Giving suitable example, explain the concept of table alias. (1)
- (d) Explain “Atomicity” property in database transaction. (1)
- (e) Study the following tables DOCTOR and PAYMENT and write SQL commands for the questions (i) to (iv) and give outputs for (v) to (vi) (1x6=6)

TABLE: DOCTOR

| DOCID | Name     | Dept       | Sex | Experience |
|-------|----------|------------|-----|------------|
| 101   | John     | Ent        | M   | 12         |
| 104   | Smith    | Orthopedic | M   | 5          |
| 107   | George   | Cardiology | M   | 10         |
| 114   | Lara     | Skin       | F   | 3          |
| 109   | K George | Medicine   | F   | 9          |
| 105   | Johnson  | Orthopedic | M   | 10         |
| 117   | Lucy     | Ent        | F   | 3          |
| 111   | Bill     | Medicine   | F   | 12         |
| 130   | Morphy   | Orthopedic | M   | 15         |

TABLE: PAYMENT

| ID  | Basic | Allowance | Consultation |
|-----|-------|-----------|--------------|
| 101 | 12000 | 1000      | 100          |
| 104 | 23000 | 2300      | 500          |
| 111 | 32000 | 4000      | 500          |
| 114 | 12000 | 5200      | 100          |
| 101 | 42000 | 1700      | 200          |
| 105 | 18900 | 1690      | 300          |
| 130 | 21700 | 2600      | 300          |

- (i) Display the names of all the doctors who are in ‘Medicine’ department having more than 10 years’ experience.
- (ii) Display the average salary of all the doctors working in ‘Ent’ department where Salary = Basic + Allowance.
- (iii) Display the Number of doctors in each department.
- (iv) Display the highest consultation fee among all male doctors.
- (v) What will be the cardinality if equi join is performed on these two tables.
- (vi) SELECT COUNT (DISTINCT Dept) FROM DOCTOR;

- Q7 (a) How is m-Commerce beneficial to businessmen? (1)
- (b) Define the term ICT(Information and communication technology). How does ICT impact our daily life? (2)
- (c) How does e-governance help in reducing corruption? Write 2 points. (1)

(d) Ram works for Customer Supports Executive. He wishes to create controls on a form for the following functions. Choose appropriate controls from text box, text area, Label, Option Button, Combo box, List box, Command button. (1)

| S no | Control used to                     | Control |
|------|-------------------------------------|---------|
| 1    | Enter A/C type (prepaid / postpaid) |         |
| 2    | Reset Form                          |         |

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