

CLASS XII

GUESS PAPER

INFORMATICS PRACTICES-065

Time: 3hrs

1.
 - a. One snooping method used by hacker/crackers is monitoring keystrokes made on a keyboard. Write two other snooping methods adopted by such people. 2
 - b. Arun is interested in transferring few songs from her mobile phone to david's mobile phone. Suggest two suitable options he may opt for doing the same 2
 - c. compare free open source software and proprietary software with respect to customization of software and license fee. 2
 - d. Write one advantage and disadvantage of star topology 1
 - e. Give two reasons why optical fiber is preferred over twisted pair cable? 1
 - f. Brown confused between MAC address and IP address. Explain the difference with help of example of each 1
 - g. write the difference between switch and hub 1
2.
 - a. Sumith has created combobox in the form. He has included list of countries like INDIA, JAPAN etc. Write the java code to check whether sumith has selected INDIA or not . 1
 - b. What is the use of ? : operator? Give one example illustrate the same. 1

- c. How do you write comments in HTML documents ? give one example 1
- d. How `` different from comments `` ? give one example 1
- e. In the following program segment 2
- i. How many times the following loop executes?
- ii. What is the last value of A displayed out?
- ```
int A=10;
While(++A<15){ system.out.println(A);}
```
- f. Write a function in java that takes one integer as parameter and returns the factorial of that number. 2
- g. Write two differences between HTML and XML 2
3. a. PRIYA created table EMP in MySQL and one of the columns is as follows  
name varchar(20). Later on she wanted to increase the size of the name to 40.  
help PRIYA to change the size of the column 'name' . 2
- b. Biswas created a table 'LIBRARY' . price is a column of this table.  
He is not able to enter the price more than 3000 while inserting new books  
Details. What constraint did he specify when she created the table. ? 1
- c. What is the purpose of SAVEPOINT and SET AUTOCOMMIT TCL commands in

Mysql ?

1

- d. Write two advantages of Relational data base model. 1
- e. What is referential integrity ? 2
- f. What is cardinality of the table? Write SQL command to display the cardinality of the table. 2
- g. The NAME and SALARY column of the table EMP is given below 1

| NAME | SALARY |
|------|--------|
| ABC  | 0      |
| XYZ  | 1000   |
| BCD  | 2000   |
| MNO  | NULL   |
| PQR  | 4000   |
| UVW  | 0      |

Base on this information findout the output of the following queries:

- i. select AVG(SALARY) from emp;
- ii. select AVG(DISTINCT SALARY) from emp;

4. a. What is method overloading and overriding ? Illustrate the same with suitable example. 2

- b. What will be the value of the name1 and name2 after executing the following code:

String name1 = " JAVA WITH";

```
String name2 = " NETBEANS";
```

```
name 2= name1.concat(name2);
```

c. what is the output of the following statement : 1

```
int i=2;
```

```
system.out.print(++i +"\t"+ i++);
```

d. convert the following for loop into while loop : 2

```
for(int i=1;i<=5;i++)
```

```
{
```

```
 for(j = 5; j>=1; j--)
```

```
 {System.out.println(j);
```

```
 }
```

```
}
```

e. Rewrite the following program segment after correcting error(s) if any.

Underline each correction

1

```
int x = integer.parseInt(tf1.setText());
```

```
x = x+ 10;
```

```
tf1.setText(x);
```

f. What will be the contents of jt1 and jt2 after executing the following code:2

```
String s1 = "ORACLE COROPORATIONS";
```

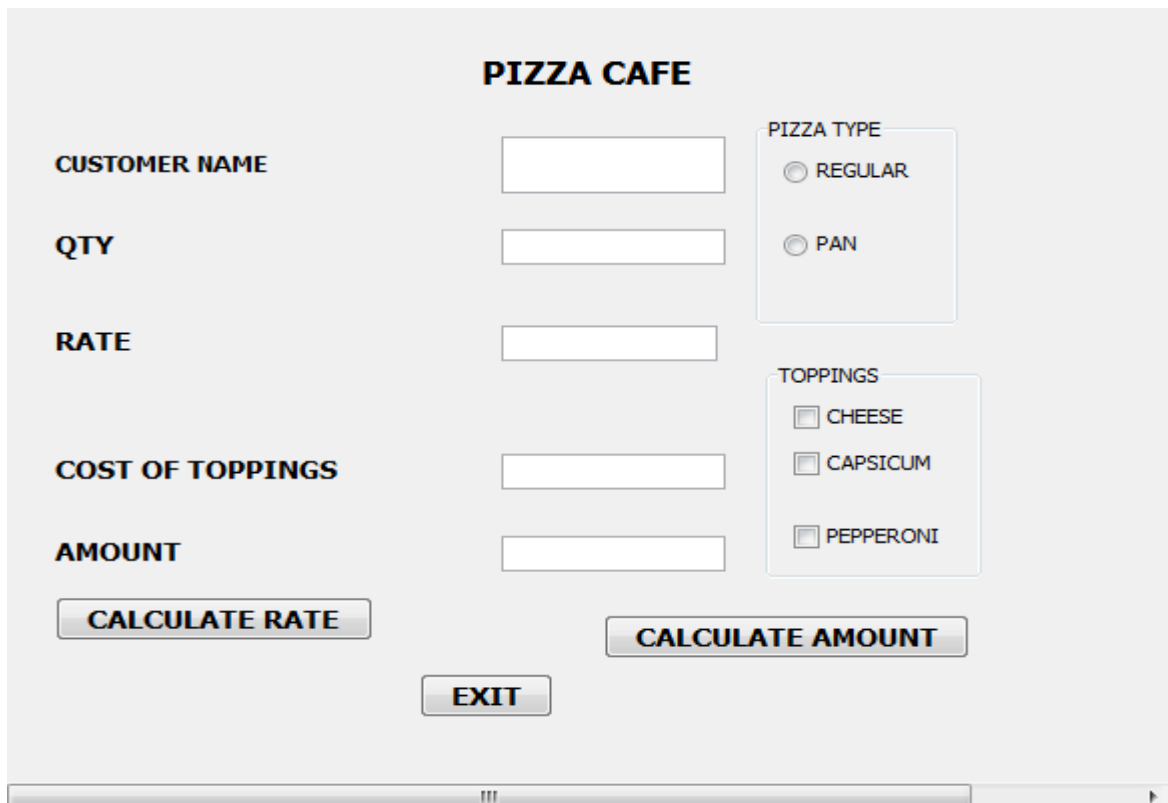
String s2;

S2 = s1.substring(1,5);

Jt1.setText(" " + s1);

Jt2.setText(" " +s2);

- g. Read the following case study and answer the questions that follows: The pizza café has computerized its billing. The following is the data entry screen used at their outlet. The price of regular pizza is Rs. 90 and that of pan pizza is Rs 110. The user can choose different types of extra toppings if he wants. Extra toppings cost Rs 20.



Write java code for the following :

1. Write java code to set default option as PAN pizza when runs the JFrame. 1
  2. Write code for CALCULATE RATE to calculate the rate of pizza and display it in a corresponding textfield depending on the type of pizza selected by the customer. 2
  3. Write the code for java calculate the total amount and display it in corresponding textfield. Total amount is calculated by first finding the cost of extra toppings selected by the customer. Remember that each extra toppings cost Rs.20 therefore if user selects 2 toppings the cost of toppings will be Rs.40. Then add it to the rate and multiply the resultant amount by the quantity ordered. 2
  4. Write code for clear all textfields and EXIT button to exit applications. 1
5. a. what is database transaction? Explain the purpose of REVOKE command. 2
- b. Write the output of the following : 2
- i. SELECT LEFT(“ YOU CAN WIN”, 3);
  - ii. SELECT ROUND( 26.293, -1);
  - iii. SELECT DAYOFYEAR(‘2011-01-31’);
  - iv. SELECT SUBSTR(‘XYZABCD’, -5,3);
- c. consider the table STOCK given below. Write SQL commands (i) to (iv) and output for (5) to (8).

6

RELATION: STOCK

| ITNO | ITNAME | BRDNAME   | COUNTRY | QTY   | UPRICE |
|------|--------|-----------|---------|-------|--------|
| 1    | CPU    | INTEL     | US      | 1200  | 2000   |
| 2    | CPU    | MOTROLA   | JAPAN   | 4000  | 1450   |
| 3    | MONIOR | LG        | JAPAN   | 2000  | 1200   |
| 4    | MOUSE  | MICROSOFT | US      | 75000 | 100    |

|   |           |               |        |       |       |
|---|-----------|---------------|--------|-------|-------|
| 5 | HARD DISK | WESTRNDIGITAL | US     | 79000 | 450   |
| 6 | CPU       | IBM           | US     | 6500  | 13000 |
| 7 | HARDDISK  | SEGATE        | TAIWAN | 76800 | 600   |
| 8 | RAM       | SONY          | JAPAN  | 45000 | 9000  |

- i. To show all information about US hardsisks .
- ii. To change county of all Japan items as CHINA
- iii. To show the whole table alphabetical order of brandname.
- iv. To display number of item from Taiwan
- v. `SELECT AVG(UPRICE) FROM STOCK WHERE COUNTRY ='JAPAN';`
- vi. `SELECT COUNT (DISTINCT COUNTRY) FROM STOCK;`
- vii. `SELECT SUM(UPRICE*QTY) FROM STOCK WHERE QTY>65000;`
- viii. `SELECT COUNT(*) FROM STOCK WHERE COUNTRY='''US'';`

6. a. write a SQL query to create the table 'SCHOOL' with the following

structure

2

| Field       | Type        | Constrain             |
|-------------|-------------|-----------------------|
| Adno        | Integer(4)  | Check for more than 0 |
| Name        | Varchar(40) | Not null              |
| Nationality | Varchar(15) | DEFAULT Indian        |
| Sex         | Varchar(3)  | 'M' OR 'F'            |

- b. In a database there are two tables 'EMP' and 'ESAL' as shown below

EMP

| Empno | Ename | Job      | Phone    |
|-------|-------|----------|----------|
| 11    | A     | CLERK    | 98989898 |
| 22    | B     | MANAGER  | 89898989 |
| 33    | C     | SALESMAN | 12341234 |

ESAL

| Empno | SAL   | COMM |
|-------|-------|------|
| 11    | 1200  | NULL |
| 22    | 34000 | 2300 |
| 33    | 12000 | 130  |

- i. Which column in the ESAL is primary key and foreign key? Justify your answer. 1
- ii. Show the result of the Cartesian product of the above table 2
- c. Consider the tables EMP and DEPT

EMP

| Empno | Ename | Job       | Mgr  | Hiredate  | Sal  | Comm. | Deptno |
|-------|-------|-----------|------|-----------|------|-------|--------|
| 7839  | King  | President |      | 17-nov-81 | 5000 |       | 10     |
| 7698  | Blake | Manager   | 7839 | 01-may-81 | 2850 |       | 30     |
| 7782  | Clark | Manager   | 7839 | 09-jun-81 | 2450 |       | 10     |



|      |        |          |      |           |      |      |    |
|------|--------|----------|------|-----------|------|------|----|
| 7566 | Jones  | Manager  | 7839 | 02-apr-81 | 2975 |      | 20 |
| 7654 | Martin | salesman | 7698 | 28-sep-81 | 1250 | 1400 | 30 |
| 7499 | Allen  | Salesman | 7698 | 20-feb-81 | 1600 | 300  | 30 |
| 7844 | Turner | Salesman | 7698 | 08-sep-81 | 1500 | 0    | 30 |
| 7900 | James  | Clerk    | 7698 | 03-dec-81 | 950  |      | 30 |

DEPT

| Deptno | Deptname   | Loc      |
|--------|------------|----------|
| 10     | Accounting | New york |
| 20     | Research   | Dallas   |
| 30     | Sales      | Chicago  |
| 40     | Operations | Boston   |

With reference to these tables, write SQL commands (i) and (ii) and output for (iii) below

- (i). To display name, salary of all manager working in NewYork 2
- (ii). To display highest salary of managers and clerks 2
- (iii). Select ename, job, sal\*12 from EMP, DEPT where emp.deptno = dept.deptno; 1

7. i. What is e-learning? How it is benefit to students? 2

ii. what is front-end components and back-end data base. 1

iii. Vijayan works for the Customs Department. He wishes to create controls on a form for the following functions. Choose appropriate controls from Text box, Label, Option button, Check box, List box, Combo box, Command button and write in the third column.2

| SNo | Control used to:                  | Control |
|-----|-----------------------------------|---------|
| 1   | Enter last name                   |         |
| 2   | Enter Gender                      |         |
| 3   | Choose City from a list of cities |         |
| 4   | Submit Form                       |         |



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