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Session Ending Examination 2013-14

Subject : Informatics Practices(065)

Class : XI

Time : 3 hrs.

Maximum Marks: 70

General Instructions :

- i) All questions are compulsory.
- ii) Answer the questions after carefully reading the text.
- iii) Please check that this question paper contains 7 questions.

Q1.

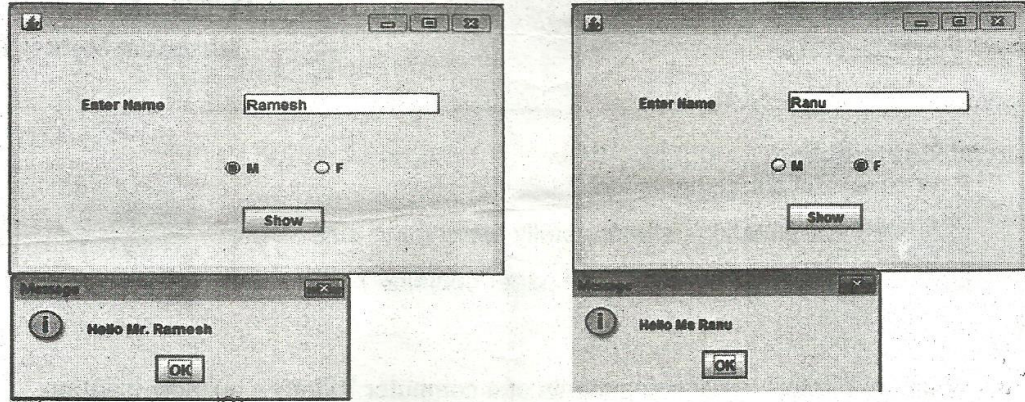
- a. What are the functional components of a computer ? Draw a suitable diagram. [2]
- b. Name the device in which a computer system holds data temporarily. [1]
- c. Define operating system. Write any two types of Operating System. [2]
- d. Define the following :- [2]
 - a) Compiler
 - b) Port(s)
- e. What do you mean by utilities programs? Explain with example. [2]
- f. Name the program/technology which prevents unauthorized access to or from a private network. [1]

Q2.

- a. Explain the usage of the following methods : [1]
 - a) setText()
 - b) toString()
- b. Name the most suitable component to accept multiline text at run time. [1]
- c. What will be the output of the following command? [2]

```
System.out.print("learning".concat("java"));  
jTextField1.setText(""+Integer.parseInt("21"+100)+100);
```
- d. Name the different list type controls offered by Java Swing. [1]
- e. What is a variable in java? Explain with example. [2]

- f. Lata Designed a java Application to input name in the textfield and select either M or F from the radio button, on the click of show button it displays popup/dialog box with message as given below. [3]



Write Java code for the button(show) to display the same.

Q3.

- What benefits does an e-business offer to the customers. [2]
- What are the negative social impacts of e-governance? [2]
- Write name of two websites which offers e-learning facility. [1]
- Rewrite the code given below using if else without affecting the output the code. [2]

```
switch(dow)
{
    case 1:
    case 3: ans="Odd Nos";
           break;
    case 2 :
    case 6:
    case 4: ans="Even Nos";
           break;
    case 5 :
    case 7 : ans="Prime Nos";
           break;
    default :
           ans="Other Than odd, Even, Prime Nos";
}
```

- What will be the value of term after executing the code? Also rewrite the code given below using for loop without affecting the output the code. [3]

```
double count=0,term=10;
// int count=0;
while(count<10){
```



```

        count=count+1;
        term=term+1;}
    System.out.print(""+term);

```

Q4.

- a. What will be the output after the following java codes gets executed [2]
 for(inti=24501,d=0 ; i !=0 ; i/=10)

```

    { d=i%10;
      System.out.println(1+d+"&");
      if(d==0)
        break;
    }

```

- b. The following code has some error(s). Rewrite the correct code underlining all the corrections made: [2]

```

    int k ; j=5 ;
    if( k = j -5 )
    {
        jTextField1.getText ( ' i and j are unequal ' );
    }

```

- c. Write the characteristics of a good program. [2]
 d. Define Robustness of a program. [1]
 e. What will be the output after executing the following java code- [2]

```

    int k=1;
    int j=2;
    j= k++ + ++j + ++k;
    k=k+1;
    System.out.print("j="+j+"k="+k);

```

- f. What does getPassword() on a password field return ? [1]

Q5.

- a. Define the term primary key with suitable example. [2]
 b. Define the following terms : [2]
 (i) Data Dictionary
 (ii) Data Redundancy
 c. Predict the output of the following sql command. [2]
 a) SELECT ROUND(625.95, -1) +TRUNCATE(65.195, 2);

b) `SELECT UCASE(SUBSTR('KVS Mumbai', 1,4)) ;`

c) `SELECT INSTR('KVS MUMBAI' , 'M');`

d) `SELECT MONTH('1999-12-11');`

d. Vinay created a table in Mysql. Later on he found that there should have been another column in the table. Which command should he use to add another column to the table? [1]

e. What are the differences between **drop** and **delete** command in sql. [2]

f. Ashok needs to display name of those students who have "A" as the last character in their name field. He writes the following SQL query.

`SELECT name FROM STUD WHERE name LIKE '*A%';`

But the query is not producing the desired result. Identify the problem. [1]

Q6.

a. Write Sql command to create table "Employee" with the following details- [2]

Column name	Empname	Empcode	Dateofjoin	Dept	Salary
Type	String	Number	Date	String	Number
Constraint	NOT NULL	Primary Key			

b. Write sql command the add a new column "city" with 20 characters in the above table [1]

c. A table "dept" contains 5 rows and 20 columns. Ramesh added 2 more columns and deleted 3 rows from the table. Now what is the degree and cardinality of the table "dept" [1]

d. Write SQL commands for the following on the basis of given table relation Teachers. [6]

No.	NAME	Age	Department	Dateofjoin	Salary	Sex
1	Jugal	33	Computer	10/01/1997	12000	M
2	Sharmila	31	History	23/03/1998	13000	F
3	Sandeep	32	Maths	12/12/1996	30000	M
4	Sanggeta	35	History	01/07/1999	40000	F
5	Rakesh	43	Maths	05/09/1997	25000	M
6	Shalakha	33	Maths	31/07/1997	20000	F

1. To show all information about the teacher of Maths department.
2. To list the names of male teachers who are in Computer department .
3. To list names and age of all female teachers with their age in ascending order.

4. Increase the salary by 5% of all teachers whose age is more than 42 years.

5. What will be the output of the following sql commands-

- i) Select * from Teachers where name like 'j%';
- ii) Select sum(salary) from teachers where sex='F';
- iii) Select count(*) from Teachers where age>33;
- iv) Select min(salary) from teachers group by sex;

Q7.

- a. Explain Relational Data model with example. [2]
- b. Can a table have multiple Primary keys? Can it have multiple Foreign keys? [1]
- c. Find out the error and rewrite the correct SQL command. [1]
Select * from ITEM where price =NULL;
- d. Consider a table Empl as given below and write the query for the followings [6]

TABLE : EMPL

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
8369	SMITH	CLERK	8902	1990-12-18	4000	NULL	20
8499	ANYA	MANAGER	7805	1991-05-05	18000	300.00	30
8521	SETH	SALESMAN	7890	1992-06-09	1000	500.00	30
8566	BINA	MANAGER	5678	1997-08-04	33000	NULL	20
8644	SCOTT	ANALYST	1234	1993-06-02	38000	0.00	10
8888	AMIR	CLERK	3456	1992-05-06	12000	NULL	05

1. Display employee name and annual salary whose commission is not NULL from table EMPL. Where annual salary is calculated as sal * 12.
2. List the details of those employees whose name starts with letter " S ".
3. List the employee name whose salary is between 15000 and 30000 in the descending order of name
4. Display number of employees job wise.
5. What will be the output of the following sql commands
 - i) Select min(sal)+max(sal) from EMPL;
 - ii) Select ename from EMPL where job like '%E_';
 - iii) Select lcase(left(Ename,4)) from EMPL;
 - iv) Select concat(ename,Job) from EMPL where JOB= 'CLERK' ;

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