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## CLASS XII <br> SAMPLE PAPER-065 INFORMATICS PRACTICES

Time Allowed : 3HR
Maximum Marks: 70

## General Instructions:

I. All the questions are compulsory.
II. Answer the questions after carefully reading the text.

## Question 1:

a. What will be the value of total after the loop finishes execution?
int total=0;
for(int count=5;count<=10;count++)
\{
total=total+count;
\}
jTextField1.setText("The total is"+total);
b. Identify the error(s) in HTML code. Also, write the correct code
< body color="yellow" text="white">
c. Which of the following method(s) does not accept any arguments?
i) pow() ii) toLowerCase()
iii) round()
iv) All of these
d. Amit created a program using switch case. He used the data type double for selection variable. Is it correct to define selection variable as double? Give reason.
e. Find the output:
int $i=1$;
for ( $\mathrm{i}=1$; $\mathrm{i}<=5$; $\mathrm{i}++$ )
System.out.println(""+i);
System.out.println(""+i);
f. Write a function using java to calculate the area of a circle. Notice that the function should pass radius as parameter and return area.

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g. What will be the value of $P$ and $Q$ after execution of the following code.
int $P, Q=100$;
for $(P=10 ; P<=12 ; P++)$
\{
Q+=P;
\}
JOptionPane.showMessageDialog(this,"P:"+P+",Q:"+Q+"");

## Question 2:

a) Which MySQL command helps you to see constraints applied on column(s) in a table?
b) Mohan created a table in Mysql. Later he found that table is wrongly created and he wants to remove it.

Name the command by which Mohan can do it.
c) Reena created a table named student, she wants to see those students whose name ending with $p$. She wrote a query SELECT name. * FROM student WHERE name="\%p"; Help Reena to run the query by removing the errors from the query and rewriting it.
d) Table Shop contains 4 columns(itemcode, itemname, itemprice, itemdom) and 10 records. Delete all records where itemname is "Parle".
e) What is primary key? How is it different from candidate key? Explain with the help of suitable example.
f) Table Employee contain the columns named with Emp_no, Emp_name and Basic:

| Emp_No | Emp_Name | Basic |
| :--- | :--- | :--- |
| 6985 | Suresh | 6700 |
| 5874 | Rahman | 7500 |
| 6587 | Sourav | NULL |
| 5478 | Ajay | 5500 |

Based on this information, find output of the following queries.
a. SELECT AVG(Basic) FORM EMPLOYEE;
b. SELECT Name FROM employee WHERE Basic IS not Null;
g) A table "Hospital" in a database has degree 4 and cardinality 9 . What is the number of rows and columns in it.

## Question 3:

a) Write java statement to extract selected item from a given listbox names "jList1".

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b) What is friendly access of class members?
c) A class Vehicle and its subclass Car both have a method speed(). If Maruti is an object of class type Car, what will happen if following statement is issued? Maruti.speed();
d) What is an abstract class?
e) Differentiate between Group by and having?
f) What will be the content of jTextArea1 and TextField1 after execution of the following statements?

1) jTextArea1.setText("GoltGreen\nIndia");
2) String msg="All The Best";
jTextField1.setText((msg.length()-6)+"");
g) Which property sets action to be performed when the user attempts to close the frame.
h) What is the use of forClass() method in JDBC?

Question 4: Write the SQL Query for (a) to (f) and output of (g) and (h) on the basis of table BANK given below:

## BANK

| Ac_No | Cust_Name | B_Name | Amount | Date_of_open | No_of_transaction |
| :--- | :--- | :--- | :--- | :--- | :--- |
| A001 | Agam Shah | SBI | 28000 | $2011-06-01$ | 5 |
| A002 | Nishant <br> Patel | HDFC | 22000 | $2012-07-02$ | 7 |
| A003 | Krunal | ICICI | 66000 | $2012-06-04$ | 9 |
| A004 | Twinkle | HDFC | 55000 | $2013-01-10$ | 6 |
| A005 | Jinal | ICICI | 34000 | $2013-01-15$ | 3 |
| A006 | Aaditya | SBI | 90800 | $2013-08-18$ | 1 |
| A007 | Varsha | AXIS | 18000 | $2013-09-11$ | 2 |
| A008 | Vishnu | ICICI | 97000 | $2011-08-13$ | 5 |
| A009 | Dhruv Raj | UCO | 12000 | $2010-12-01$ | 7 |

(a) To display the number of customer in SBI who opened their account in the year 2015.
(b) Display Ac_No,Amount, No_of_transaction of customers whose bank is SBI or ICICI or UCO bank.
(c) Display the detail of customer whose name ends with 'l'.
(d) Display the Date _ of_ Open of oldest customer.
(e) Display sum of amount deposited in each bank separately.
(f) Remove the detail of all customer of UCO bank.
(g) Select Count(distinct B_Name) from Bank;
(h) Select SUBSTR(Cust_Name,3,6) from BANK;

(i) Which command is used to end the transaction successfully in MySQL.
(ii) Define ACID properties?

Question 5: (a) Ms. Rakhi works in an International Bank as an IT Head. She designed a simple interest calculator program as shown below:


The interest rate is given based on the account type as shown below:

| ACCOUNT TYPE | INTEREST RATE \% |
| :---: | :---: |
| SAVING | $4 \%$ |
| RECURRING DEPOSIT | $6 \%$ |
| FIXED DEPOSIT | $8 \%$ |

i. Write the code required for 'INTEREST RATE' button to display interest rate as per the above given criteria.
ii. Write the code required for 'Sl' button to calculate and display 'Simple Interest' based on the given formulae: $\mathrm{SI}=($ amount*interest_rate*duration)/100;
iii. Write the code required for 'CLEAR ALL' to clear all the textfields.
(b) Write a program for below mentioned pattern.

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(c) Find output of the following java code snippet:

String word="Highrise";
String wordlc = word.toLowerCase();
for (int $\mathrm{i}=0$; $\mathrm{i}<$ wordlc.length(); $\mathrm{i}+=4$ )
\{
String extstr = wordlc.substring(i,i+2);
jTextArea1.append(extstr+"\n");
\}

## Question 6:

a) Consider the tables Doctors and Patients given below:

Table: Doctors

| DOCID | DOCNAME | DEPARTMENT | OPD_DAYS |
| :--- | :--- | :--- | :--- |
| 101 | M.Panday | ENT | TTS |
| 102 | G.P.Gupta | Surgery | MWF |
| 103 | C.K.Sharma | Ortho | MWF |

Table: Patients

| PATNO | PATNAME | DEPARTMENT | DOCID |
| :--- | :--- | :--- | :--- |
| 1 | Neeraj | ENT | 101 |
| 2 | Mohit | ORTHO | 201 |
| 3 | Raj | ENT | 101 |
| 4 | Mohit | SURGERY | 102 |
| 5 | NANDINI | ORTHO | 201 |

a. Display the PATNO, PATNAME and CORRESPONDING DOCNAME for each patient.
b. Display the list of all patients' whose OPD_DAYS are MWF.
c. Select OPDS_DAYS_DAYS, count(*) from DOCTORS, PATIENTS where PATIENTS.department= DOCTORS.department grouped by OPD_DAYS;

d. Write the resulting output of the followings:

Select floor(3456.98)+ceil(9876.89);
Select substr('CLGupta World School,1,3);
Select round(1023.432,1);
Select MOD(ROUND(120.1),5);
e. TeacherName is a column in a table Schools. The SQL queries

Select count(*) from schools;
And
Select count(TeacherName) from Schools;
Give the result 26 and 25 respectively. What may be the possible reason for this? How many records are present in the table 26 or 25 ?

## Question7:

a) Write any four features of XML?
b) If int $x=5$; int $\mathrm{y}=7$;
What is the value of $x$ and $y$ after the expression $y+=x++$;
c) Differentiate between executeQuery() and executeUpdate() with example.

## Question 8:

(a) Write two features of a good interface.
(b) How is e-business beneficial to shopkeepers? Write two points.
(c) Shraddha works for a hospital. She wishes to create controls on a form for the following functions.

Suggest controls to her. Choose appropriate controls from Text box, Label, Radio button, Check box, List box, Combo box, Command button.

| SNo | Control used to : | Control |
| :--- | :--- | :--- |
| 1 | Enter Patient name |  |
| 2 | Choose Gender (out of <br> Male/Female) |  |
| 3 | Choose Department <br> from a list of available <br> departments |  |
| 4 | Submit Form |  |

"Good grades are life's way of saying that there is a bright future in store for you."

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