

**INTERNATIONAL INDIAN SCHOOL, DAMMAM**  
**SECOND TERM EXAMINATION - 2014**

**SUB: INFORMATICS PRACTICES**  
**CLASS: XI**

**MAX MARKS: 70**  
**TIME: 3 HOURS**

*General Instructions:*

1. All questions are compulsory.
2. Marks are indicated against each question.
3. Programming must be done in Java.

**SET A**

Q1.

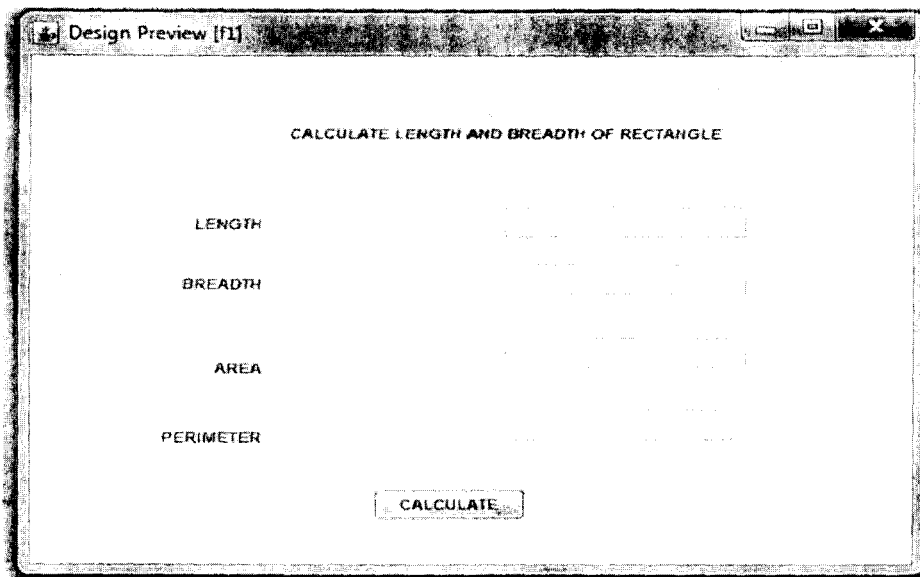
- |  |   |
|--|---|
| a) What is a nibble?   | 1 |
| b) 1 TB = _____ GB   | 1 |
| c) Explain different type of language processors.              | 2 |
| d) Write down the four major functions of an operating system. | 2 |
| e) Write short note on Device Driver.                          | 1 |
| f) What is a worm?   | 1 |
| g) Compare Digital Signature and Digital Certificate.          | 2 |

Q2.

- |   |   |
|---|---|
| a) Explain the method toString( ) with the help of an example.  | 2 |
| b) Define the term Inspector Window.  | 1 |
| c) Write a java code that takes the cost of an apple from jTextField1 and quantity of apples from jTextField2 and calculates total amount to be paid as cost * Quantity to be displayed in jTextField3. | 2 |

Q3.

- |   |   |
|---|---|
| a) Explain the method setEditable( ) with example.    | 2 |
| b) Write the java code for the following application: | 3 |



Q4.

- i. Write the equivalent **do-while** loop for the following: 2

```
int t = 5;
for (inti = 1; i<=10; i++)
t = i * t;
```

- ii. Write the equivalent **switch** statement for the following: 2

```
if (grade == 'O')
jTextField1.setText("Outstanding!!!");
else if (grade == 'A')
jTextField1.setText("Excellent!");
elseif (grade == 'B')
jTextField1.setText("Good");
else if (grade == 'C')
jTextField1.setText("Fair");
else
jTextField1.setText("Work Hard");
```

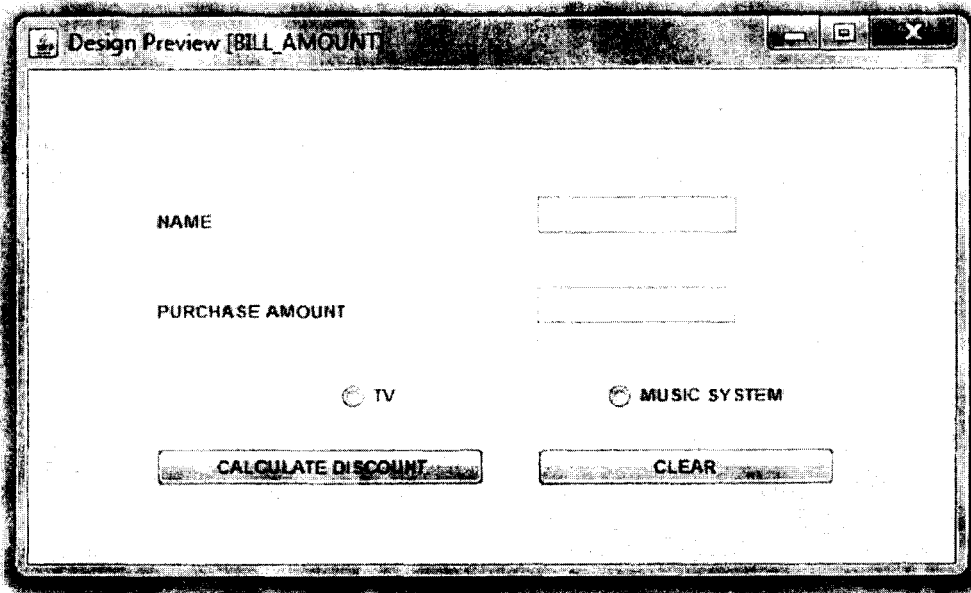
- iii. How many times will the following loop get executed? 1

```
i = 5;
x=10;
do
{
x = i + x;
i++;
} while(i>10);
```

- iv. An electronic shop has announced the following seasonal discounts on the purchase of certain items: 5

Purchase amount in Rs.	Discount on TV	Discount on Music System
0 - 25000	5%	10%
25001 - 50000	10%	20%
More than 50000	15%	30%

1. Develop an application based on the above criteria. to input amount of purchase and the type of purchase (TV or Music System using JRadioButton) by a customer.
2. Compute and print the net amount to be paid by a customer along with his name accepted in a text field in a Message Box.
3. Close the application when Clear button is pressed.



- v. Write a java code to take an input in TextField for a number. If the number is even then display its square otherwise its cube in a MessageBox. 2
- vi. What will be the values of variables 'm' and 'n' after the execution of the following code? 2
- ```
int m,n=0;
for (m=1; m<=4;m++)
{
n+=m;
n--;
}
```
- vii. The following code has some error(s). Rewrite the correct code underlining all the corrections made. 2
- ```
int sum = 0, count = 0
I=1;
do
{
sum =+ I;
I++;
}while(I < 10)
```
- viii. What is the difference between showInputDialog ( ) and showConfirmDialog ( ) 2
- ix. What is the main difference between a while loop and a do while loop? Explain with an example. 2

Q5.

- a) Define Candidate Key with example. 2
- b) Distinguish between Row and Column with example. 2
- c) If software is released under open source, it means ..... 1

Q6.

- a) While making a form in NetBeans, Ms. Pooja wants to enter students roll number and gender (Male/Female) into a form. Name the controls that she will use in her form. 1
- b) Mr. Satish wants to remove a column AC\_Type from Account table. What MYSQL command should he use? 1
- c) Name the commands: 2
  - 1. To describe the structure of the table.
  - 2. To delete the table physically.
- d) Explain the IN clause with example. 2
- e) Ms. Rita is working in a software company. She works under MySQL database. She forgot to know the tables which she worked in last week. What MySQL statement she should use to know the tables? 1
- f) A table "Vehicle" in a database has degree 4 and cardinality 7. What is the number of rows and columns in it? 1
- g) Navin, a student of class XI, created a table "Book". Price is a column of this table. To find the details of books whose prices have not been entered, he wrote the following query:  
Select \* from Book where Price = NULL;  
Help Navin to run the query by removing the errors from the query and rewriting it. 1
- h) If a database "Employee" exists, which MySQL command helps you to start working in that database? 1
- i) The LastName column of a table "Directory" is given below: 2

LastName
Batra
Sehgal
Bhatia
Sharma
Mehta

Based on this information, find the output of the following queries:

A) SELECT LastName FROM Directory where LastName like '\_a%';

B) SELECT LastName FROM Directory where LastName not like '%a';

- j) What is the purpose of a Column Alias? Write an example. 2
- k) Define the term Keyword. 1

1) Consider the following table : "BANK".

**TABLE: BANK**

Acc_No	CName	BName	Amount	DateOfOpen	Transactions
1	Karan	Bank of Baroda	15000	1998-01-12	10
2	Puneet	State Bank	25000	1997-02-01	09
3	Anirban	Oriental Bank	17000	1999-07-15	05
4	Yatin	Standard Chartered	38000	1999-02-10	11
5	Sunny	State Bank	47000	1998-02-06	15
6	Jayant	UCO Bank	34000	1998-08-10	07
7	Nikhil	Bank of Baroda	56000	1999-01-02	12
8	Tarun	Oriental Bank	22000	1999-04-04	08
9	Jisha	UCO Bank	34500	1998-01-05	11

Write the SQL commands for (i) to (viii) and write the output for (ix to xii) on the basis of the table BANK:

8 + 2 = 10

- i. Display data for all customers whose transaction is between 8 and 11.
- ii. Display data for all customers sorted by their date of open.
- iii. To list CName, BName, Amount for all the clients whose amount is less than 20000.
- iv. To display Acc\_No, CName, BName, Total transaction in descending order of amount.
- v. Add another column LOAN of type integer in the Bank Table.
- vi. Change the amount as 48000 for the customer Yatin.
- vii. Display the Acc\_No, BName, CName and Amount for the customers whose CName ends with 'n'.
- viii. Display the number of transactions of various account holders from the table Bank. A transaction should appear only once.
- ix. `SELECT CNAME, BNAME AS BANKING_WITH , TRANSACTIONS FROM BANK;`
- x. `SELECT * FROM BANK WHERE CNAME LIKE '_a%';`
- xi. `SELECT ACC_NO, CNAME, BNAME FROM BANK WHERE BNAME='UCO BANK' OR BNAME='STATE BANK';`
- xii. `SELECT CNAME,DATEOFOPEN,TRANSACTIONS FROM BANK WHERE B_NAME <> 'ORIENTAL BANK';`