

**INDIAN SCHOOL SOHAR**  
**II TERM EXAM (2014-15)**  
**INFORMATICS PRACTICES (065)**

**Class: XI**  
**Date: 3 December, 2014**

**Marks: 70**  
**Time: 3 Hours**

**Instructions:**

*i) All questions are compulsory.*

*ii) Answer the questions after carefully reading the text.*

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1. (a) What is the purpose of default clause in a switch statement? 2
- (b) Differentiate between while and do...while loop. 2
- (c) Explain various possible values of selectionMode property of a list box. 2
- (d) Explain any two properties, each, of JLabel and JTextArea controls. 2
- (e) What are the limitations of switch? 2
- (f) What is an event? What are event handlers? 2
- (g) Name any two Top Level and Mid Level container controls 2
- (h) Write Java expressions for 2
  - i)  $\frac{x + e^x}{\sqrt{2x + 4}} + 1$
  - ii)  $2x^2 + \log(2x^2)$
- (i) Construct a Java statement for printing  $A^2 + B^2$  in a label. 1
2. (a) Write any four ways of displaying system date. 2
- (b) Name a 2
  - i) date function that returns a number
  - ii) String function that returns a number
- (c) What is the purpose of a column alias? 2
- (d) Write any four advantages of a DBMS. 2
- (e) A numeric data field CNT contains 35675.8765. Write commands to round off CNT to 2
  - i) Whole number
  - ii) upto 3 decimal places
- (f) Name any two TCL commands. 1

3. (a) Predict the output: 2  

```
int m=5, n=50, i=1;
for( ;m<=n; ){
    n/=m;
    System.out.println(“”+n);
}
```
- (b) Write the output of following code: 2  

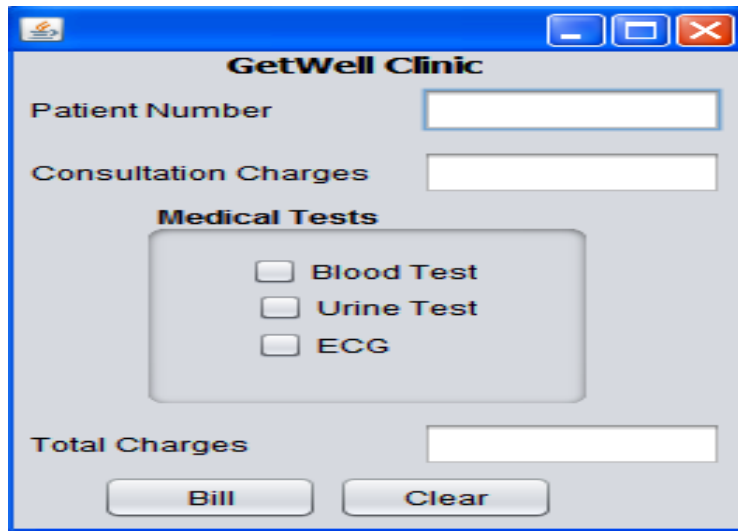
```
int a=5, b=10, c=9, d;
d=(a++)+(++c)-(--b);
System.out.println(((a>b)?(++d):(--b)));
System.out.println((c>d)?35:(b--));
```
- (c) Find errors from the following code segment and rewrite the corrected code underlining the corrections made: 2  

```
int a=1; b=10;
do
{
    (x%3=0)
    Print(2*a+1);
    else
    Print(2*a-1);
    a-=2;
}while a>0;
```
- (d) Rewrite the following code using ‘while’ loop: 2  

```
int i, j=2;
for(i=1; i<=6; )
    i++; j+=2;
System.out.println(“i=” + i + “j=” + j);
```
- (e) Rewrite the following code using ‘switch’ statement 2  

```
if(g==0 || g==10)
    b++;
else if(g==20)
    b+=5;
else if(g==50 || g==100)
    b--;
```
- (f) Write Java code that reads an integer number ‘n’ from jTextField1 and displays its factorial in jLabel1. 2
- (g) Write Java code for printing the following series: 2  
1 4 9 16 25.....n

4. Write Java code for the following:



- (i) When Clear (clear) button is clicked: 1  
To clear the contents of text fields (pNo, cCharges, tCharges) and clear the check boxes (bTest, uTest, ecg).
- (ii) When “Bill” (bill) button is clicked: 2  
To calculate and display Total Charges as:  
Consultation Charges+ Medical Tests Charges.
- (iii) To disable Total Charges text field. 1

5. (a) Write SQL command for creating table **BANK** as per structure given below: 2

**Table Structure:**

Column Name	Data Type	Size	Constraint
Acno	Number	2	Primary Key
CName	Varchar	30	
BName	Varchar	15	Not Null
Amt	Number	10	
DOpen	Date		
Transaction	Number	2	

**Table : BANK**

Acno	CName	BName	Amt	DOpen	Transaction
1	Karan	Bank of Baroda	115000	2008-01-12	10
2	Puneet	State Bank of India	125000	2007-02-01	09
3	Anirban	Oriental Bank	117000	2009-07-15	05
4	Sunny	UCO Bank	134000	2008-08-10	15
5	Jayant	State Bank of Patiala	156000	2009-09-09	11
6	Jisha	Oriental Bank	134500	2008-01-05	07

- (b) Write SQL commands for the following:
- |      |   |   |
|------|---|---|
| i    | Show details of all State Bank customers.   | 1 |
| ii   | Increase amount by 200 if transaction is more than 10.  | 1 |
| iii  | List details of customers whose name start with 'J' and has 'N' as 2 <sup>nd</sup> last character.            | 1 |
| iv   | Show No and name of customers having account in UCO bank with amount >150000.                                 | 1 |
| v    | Display details of customers who opened account before 2009.  | 1 |
| vi   | Show customers whose number of transactions is not known.   | 1 |
| vii  | List a report as: <CName><Acno> has the current balance of <Amt> in <BName>.                                  | 1 |
| viii | Display No, CName, Amount, Interest (4.5% of Amount), Balance (Amount+Interest) of all customers.             | 1 |
| ix   | List customers of all banks, except Oriental bank, in decreasing order of amount.                             | 1 |
| x    | Add a new column Branch varchar(25) into the table.   | 1 |
| xi   | List the customers having amount in the range 150000 & 200000 (excluding both values).                        | 1 |
| xii  | Add a Not Null constraint on CName.   | 1 |
| xiii | Delete records of customers with transactions less than 2.  | 1 |
| xiv  | Show No, CName, BName & Transactions of all customers. If transaction is not known, display 'No transaction'. | 1 |
| xv   | Display names of customers and the name-lengths for customer no 1, 4 & 6.                                     | 1 |
| xvi  | Change name to Jishnu and BName to Bank of Baroda for Acno 6.   | 1 |
| xvii | Predict the output of:  |   |
|      | i) Select MOD(Instr('Loop','o'),3) as REM;  | 1 |
|      | ii) Select Concat('CO',MID('Student',-7,2));  | 1 |
|      | iii) Select 3*4+3/2-2%3*3+4 as result;  | 1 |
- (c) Find the errors and rewrite the corrected queries:
- |      |   |   |
|------|---|---|
| i)   | Select Upper('CName') from Bank;                          | 1 |
| ii)  | Select POWER(3,2)+TRUNCATE(10.67);                        | 1 |
| iii) | Select TRIM(Trailing and Leading '#' from '##TWITTER##'); | 1 |

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