



INDIAN SCHOOL SOHAR
PRE-FINAL EXAMINATION (2017-2018)
INFORMATICS PRACTICES

Class: XI

Marks: 70

Date: 01-02-18

Time: 3 hours

Instructions:

- a. All the questions are compulsory.
 b. Answer the questions after carefully reading the text.

1. Answer the following questions:

- | | |
|--|---|
| a. Write any two advantages and disadvantages of OCR. | 2 |
| b. Define the terms: i)Firmware ii)Liveware | 2 |
| c. What is disk Defragmenter? How is it useful? | 2 |
| d. Differentiate between Interpreter and Compiler. | 2 |
| e. What is Worm and Trojan horse? How do they harm us? | 2 |

2.

- | | |
|--|---|
| a. What is the significance of the following properties of text area?
i) toolTipText ii)lineWrap | 1 |
| b. How would you determine whether any element of a list (CityLst) is selected or not? | 1 |
| c. Name two Top-level and Mid-level containers. | 2 |
| d. Define the terms: i)Pretty Printing ii)Guardcode | 2 |
| e. What is a combo box? When would you prefer a combo box over a list? | 2 |
| f. What is the purpose of using MySQL? | 1 |
| g. What is Cardinality of a table? Give example | 1 |
| h. What is NULL? Name the function used to substitute NULL values in a query result | 2 |
| i. What is a Constraint? Explain default constraint with an example. | 2 |
| j. Differentiate between INSTR and SUBSTR. | 2 |
| k. Differentiate between ALTER and UPDATE. | 2 |

3.

- | | |
|--|---|
| a. Write the output of the following code:
<pre>int x=1 ,y=10; do { y /= x; }while(x++ <= 3); System.out.print(x+y);</pre> | 2 |
| b. Find the errors from the following code segment and rewrite the corrected code underlining the corrections made:
<pre>int i=2 ; j=5;</pre> | 2 |

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if(j > i)
{ jTextField1.getText("j is greater");
j-- ; ++i }
JOptionPane.showMessageDialog("hello");

```

c. Rewrite the following code using 'switch' statement: 2

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int num,val;
num = Integer.parseInt(jTextField2.getText());
if(num == 5) {
val = num * 25 - 20;
jlabel.setText(" "+num + val); }
else if(num == 10 || num== 15){
val = num * 20 - 15;
jlabel.setText(" "+num - val); }
else jlabel.setText(" "+val);

```

d. Convert the following code segment into an equivalent 'for' loop: 2

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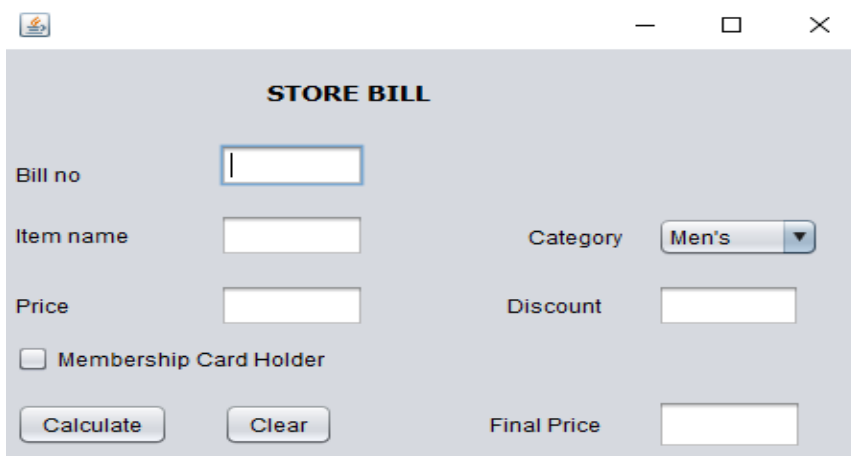
int x=2;
while(x<=3) {
if( x % 2 ==2) {
System.out.print("under "); }
else {
System.out.print(" over"); }
System.out.print(" limit");
x=x+1; }

```

e. Write java code to print the sum of the following series in JTextField3: $1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \dots$ 2

f. Write java code that checks whether a given number is prime or not and displays the output in a textfield named as Txtprime. 2

4. Answer the following questions on the basis of JFrame given below:



- i) When Clear button is clicked : To clear the contents of text fields(Bill no,Item name,Price,Discount,Final Price),clear the check box. 1
- ii) Ensure that user does not enter a negative or zero Price value .If a negative or Zero value is entered in Price text field then a warning message should be displayed and the text field should be made blank. 2
- iii)When “Calculate” button is clicked :
To calculate and display the discount and the final price as per the following table: 2

Category	Price	Discount
Men’s	<1000	30%
	>=1000	50%
Women’s	<1500	40%
	>=1500	50%
Kid’s	<500	20%
	>=500	30%

An additional discount of 5% is given to the Store Membership Card holders.

5.

- a. Write the SQL commands for the following on the basis of information given below:

Supplier: Table structure

Column name	Data Type	Constraint
SNo	Char(4)	Primary key
Pname	Varchar(15)	
Sname	Varchar(10)	
Qty	Integer(4)	
Price	Integer(6)	
City	Varchar(15)	

Supplier: Table

Sno	Pname	Sname	Qty	Price	City
S1	Bread	Britannia	180	15	Delhi
S2	Jam		220	46	Jaipur
S3	Coffee	Nescafe	170	80	Chennai
S4	Biscuit	Marie	560		Delhi
S5	Maggi	Nestle	340	45	Mumbai
S6	Cake	Britannia	150	180	Cochin

- i. Create a table supplier based on the structure given above. 2
- ii. Insert a new row with details:S7,Chocolate,100,200. 1
- iii. Show the details of suppliers where quantity is more than the price in descending order of cities 1

- iv. Add a not null constraint to product name. 1
 - v. Add a new column - phone of Integer datatype with size 10. 1
 - vi. List the details of suppliers whose name starts with 'B' and has 'S' as the 3rd character. 1
 - vii. Increase the price of Britannia by 50 rupees. 1
 - viii. List the various cities of suppliers. 1
 - ix. Remove primary key from the table supplier. 1
 - x. Delete all records whose supplier name is not known. 1
 - xi. Rename the column Sname to Company. 1
 - xii. List the no,productname,supplier and totalprice(quantity * price)of all suppliers whose price is known. 1
 - xiii. List the first 3 characters of supplier's name joined with the city in uppercase whose is quantity less than 200. 1
 - xiv. Create a new table 'Retailer' consisting of details of suppliers with minimum 5 characters in their product name. 1
- b. Write the output of the following Queries:
- i. Select Truncate(1234.58, Mod(9,2)); 1
 - ii. Select Concat(left("Supplier",3), Mid("upper",4)); 1
 - iii. Select Round(152.196,-1)+Length("Sname"); 1
- c. Remove the errors (if any) from the following queries and rewrite the correct ones.
- i. Select Instr(Sname,3) from Supplier; 1
 - ii. Select * from Supplier where qty between 200 && 300; 1
- 6.**
- a. What is e-Governance? Write two positive impacts of e-Governance on the society. 2
 - b. Write any two benefits of e-Learning to the learner. 1
 - c. Name two e-Business portals. 1
 - d. Write any two advantages of e-Business to an Organization. 1
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