

INDIAN SCHOOL SOHAR
SECOND TERM EXAM (2015-2016)
INFORMATICS PRACTICES

Class: XI

Marks: 70

Date: 03-12-15

Time: 3 hours

Instructions:

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

1.

- a) Write a command for removing all items from a given JComboBox named 'Genre'. 1
- b) Name the event which activates when an item is clicked in a Jlist control. 1
- c) Construct an expression that is equal to the absolute value of a variable. ie, if a variable p is positive, the value of the expression is just p, but if p is negative, the value of p is -p, which would be positive. The expression should be constructed, 2
- i. using a mathematical function.
- ii. using a conditional operator (without using mathematical function).
- d) Write the use of the given methods: 2
- i. append()
- ii. getEchoChar()
- e) Name one top level container control. 1
- f) What is meant by implicit and explicit type conversion? 2
- g) Define the terms 2
- i. Guard code
- ii. Pretty printing
- h) What is the difference between Runtime Error and Syntax Error? Give an example of each. 2
- i) If a string myString holds a value "12345", write the command to convert into integer type. 1
- j) How would you determine whether any element of a list (CityLst) is selected or not? 1

2.

- a) What is the purpose of a column alias? 1
- b) Write any four advantages of DBMS. 2
- c) What is the purpose of DISTINCT clause? 1
- d) Name any two TCL Commands. 1
- e) What is cardinality of a table? Give Example. 2
- f) Differentiate between Sysdate() and Now() functions. 2

- g) A numeric data field CNT contains 35675.8765 stored in a table ITEM. Write a command to round off CNT to 2
- i. Whole number
 - ii. Upto 3 decimal places
- h) Name the function for displaying computer date. 1
- i) Write a command to print the first 3 characters of “Computer”. 1
- j) The Pincode column of the table “post” is given below 2

Pincode
100001
120012
300048
281001

Find the output of the following code:

- i. Select Pincode from post where Pincode like “%1”;
- ii. Select Pincode from post where Pincode like “0%”;

3. Write java statement for the following expression: $d = \frac{\sqrt{b^2 - 4ac}}{2a}$ 1

4. Find the errors from the following code segment and rewrite the corrected code: 2

```
int x=5,y=50;
While (x<=y);
{
y=y/x; }
JOptionPane.showMessageDialog(y);
```

5. Identify the problem with the following code and rewrite the correct code. 2

```
String pswd=p1.getPassword();
if(pswd.equals(“Admin”){
}
```

6. What will be the output of the following program: 2

```
int v1=5,v2=10;
for(int x=1;x<=2;x++)
{
System.out.print(++v1+”\t”+v2--);
System.out.println(--v2+”\t”+v1++);
}
```

7. What will be the output of the following program segment: 2

```
int a=3;
a=a+1;
if(a>5)
label.setText(Integer.toString(a));
```

else

```
label.setText(Integer.toString(a+5));
```

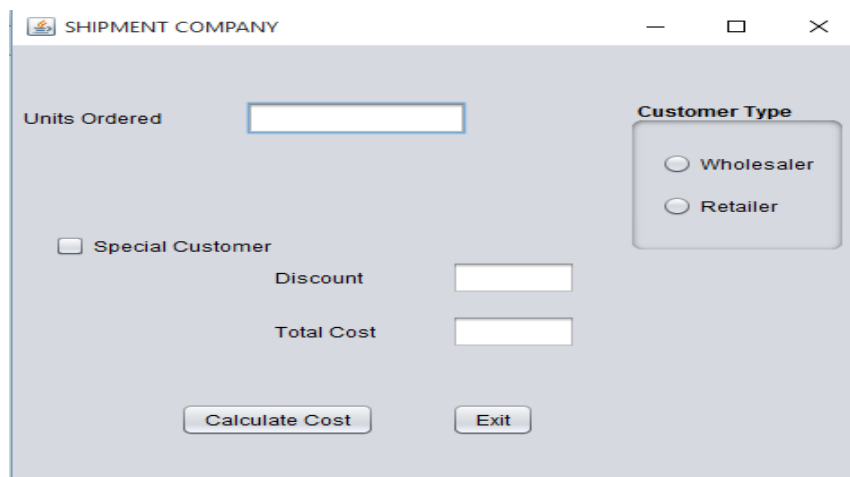
8. Convert the following segment into an equivalent do loop: 2

```
int x,y;  
for(x=10,y=20;y>=10;y=y-2)  
x++;
```

9. Write a java code to print the sum of the following series: $1 + \frac{1}{4} + \frac{1}{7} + \frac{1}{10} + \dots + \frac{1}{25}$ 2

10. Write the code to accept an integer number from the text field and then check whether the given number is palindrome or not. Display the result as “Palindrome” or “not a Palindrome” in a label. 2

11. A Shipment Corporation imposes charges to customers for different products. The shipment company costs for an order in two forms: Wholesalers and Retailers.



The cost is calculated on unit basis as follows:

For units	Price for Wholesalers	Price for Retailers
1-25	Rs.50/-	Rs.55/-
26-50	Rs.40/-	Rs.45/-
>50	Rs.30/-	Rs.35/-

Special customers are given a discount of 10%.

- a) Write the code to disable the text box txtCost and select Wholesaler as default option when the form is active. 1
- b) Write the code for Calculate Cost command button (cmdCalc) to 2
 - (i) Display the discounted price in txtDisc if special customer is selected.
 - (ii) To display total cost.(Total cost=Order unit* Per unit Price)
- c) Write the code for Exit button (cmdExit) to exit the application after displaying a message “Thank you for using our Service”. 2

12.

a) Write SQL command for creating table PREPAID as per the structure given below: 2

Table Structure: PREPAID

Column Name	Data Type	Constraint
Sno	Char(4)	Primary key
Cname	Varchar(20)	
Model	Varchar(10)	
Connection	Varchar(15)	
Validity	Integer(4)	
Amount	Integer(5)	

TABLE: PREPAID

Sno	Cname	Model	Connection	Validity	Amount
PC01	Simna	Nokia	Vodafone	365	3300
PC02	Najeeb	Nokia	Idea	60	350
PC03	Reena	Samsung	Indicom	250	3030
PC04	Meenakshi	LG	Vodafone	180	1400
PC05	Anupam	LG	Idea	180	900
PC06	Karan	Sony	Idea	90	550

b) Write SQL commands for the following :

- i. Insert a new row into the table : PC07,Jayant,Nokia,Reliance,180,1200. 1
- ii. Add a not null constraint on Cname. 1
- iii. Show the Sno,Cname and Model of customers having idea connection and validity more than 500 days. 1
- iv. Change the Validity of Samsung to 365 days and price to 3250. 1
- v. Add a new column Branch varchar(20) into the table. 1
- vi. List a report as : <Model>with <Connection>connection has a validity of <Validity> days. 1
- vii. Delete the records of those customers whose Validity is less than 100 days. 1
- viii. Increase the Amount of Idea Connection by 100. 1
- ix. Change the name of column Sno to Cust_no. 1
- x. Display Model and the position of string 'ia' in the Model column. 1
- xi. List details of customers whose name start with 'R' and 'A' as the last character. 1
- xii. Remove column Amount. 1

13. Find the output: 3

- (i) Select Round(124.44)+Pow(4,2);
- (ii) Select Ucase(Mid("Microsoftword",6,4));
- (iii)Select Dayof year(date('2015-01-15 01:02:03'))+10;

14. Find the Errors and rewrite the corrected queries: 3

- (i) Select Upper('Cname') from Prepaid;
- (ii) Select Power(3,2)+Truncate(10.67);
- (iii)Delete table Prepaid;
