

INDIAN SCHOOL SOHAR II TERM EXAM (2016-17) INFORMATICS PRACTICES (065)

Class: XI Date: 30 November, 2016

Instructions:

Marks: 70 Time: 3 Hours

i) All questions are compulsory. *ii)* Answer the questions after carefully reading the text. 2 1. a) What are these methods used for: i) append ii) isSelectedIndex 2 b) Name any two Top level and any two Mid level container controls. Write a short note on Adaptive Maintenance. 2 c) 2 d) Explain Type Conversion. e) Differentiate between Entry and Exit controlled loops. 2 f) What is an event? What are event handlers? 2 2 Name the properties used for: g) i) allowing resizing the frame at run time ii) specifying the shortcut key for the button h) Write Java expressions for: 2 i) $\frac{\log(ab)}{2ab} + \sqrt{a^2 + b^2}$ ii) $(x + y)^{2} + |e^{2x}|$ i) Construct a Java statement for printing H₂O in a Label. 1 2. Differentiate between Default and Check constraints. 2 a) 2 What is data redundancy? What are the problems associated with it? b) Name a date function that returns a 2 c) i) date ii) number d) Define: Primary Key, Alternate Key and Candidate Key. 2 e) What are different divisions of SOL commands? 2

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	f)	is a text that is not executed.	1
3.	a)	Predict the output:	2
		int a=1, b=5, x=5, y=6;	
		while(a++<=b){	
		if(a%2==0)	
		x+=y;	
		else	
		x-=y;	
		}	
		, System.out.println("x:"+x+"y:"+y);	
	b)	Find the values of 'x' and 'y':	2
		int v=50, w=40;	
		int x=v+w>40?300:200;	
		int y=(v+w)>40?300:200;	
	c)	Find errors from the following code segment and rewrite the corrected code	2
		underlining the corrections made:	
		int a=1; b=10;	
		do	
		[
		Display (2*a+1);	
]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(c==10 c==20)	
		s="Hardware";	
		else if(c==30)	
		s="Software";	
		else	
		s="Networking";	
	f)	Write Java code that reads an integer number 'n' from jTextField1 and displays product of its digits in jLabel1.	2
	g)	Write Java code for printing sum of the following series:	2
		$1 + \frac{1}{4} + \frac{1}{7} + \frac{1}{10} + \frac{1}{13} + \dots + n$	
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4. Write Java code for the following:

Happy Hypermarket					
Name of customer					
Bill amount					
O Cash O Credit Card O Cheque					
Discount					
Net Amount					
Calculate Clear Stop					

If Bill amount is more than 10,000 then discount is given as:

Payment Mode	Discount
Cash	15 %
Credit Card	NIL
Cheque	10 %

- i) When the Clear (clear) button is clicked, write the code to clear all TextFields and 1 select cash(cash) radio button.
- ii) When "Calculate" button is clicked, calculate and display discount (disc) and net 2 amount (netAmount) as per the criteria given above.
- iii) Write the code for "Stop" button to close the application.
- 5. a) Write SQL command for creating table **Customer** as per the structure given 2 below:

Table Structure:

Column Name	Data Type	Size	Constraint	
Cust_ID	Integer			
P_Date	Date			
Cust_Name	Varchar	30	Not Null	
Cust_City	Varchar	40		
Amount	Decimal	7,2		
Cust_Phone	Integer	10		

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Cust_ID	P_Date	Cust_name	Cust_City	Amount	Cust_Phone
1	2008-01-12	Karan	Delhi	15000	9102034288
2	2007-02-01	Puneet	Mumbai	25000	9674300978
3	2009-07-15	Anirban	Delhi	17000	8709489076
4	2008-08-10	Sunny	Pune	14000	7609874876
5	2009-09-09	Jayant	Jaipur	16000	9843904098
6	2008-01-05	Jisha	Ambala	34500	9967098549

b) Write SQL commands for the following:

i)	Show details of all Delhi and Mumbai customers having amount more than 20000 .	1
ii)	Show ID, Name, Amount and Discount(10% of amount) for all customers in increasing order of amount.	1
iii)	List details of customers whose name start with 'J' and has 'N' as 2 nd last character.	1
lv)	List details of Pune customers with amount not in the range 20000-30000	1
v)	Display details of customers whose purchase date is in the year 2008.	1
vi)	Show details of customers whose name start and end with 'KA'	1
vii)	List a report as: <cname><cust_phone> lives in <cust_city></cust_city></cust_phone></cname>	1
viii)	Increase the size of Cust_City to 50.	1
ix)	Add Primary Key constraint on Cust_ID.	1
x)	Add a new column email varchar(25) into the table.	1
xi)	Change name to Karuna and city to Chandigarh for Cust_ID 1.	1
xii)	Show details of customers. If phone number is not known, display 'No number'	1
xiii)	Delete records of customers with amount less than 10000	1
xiv)	Show ID, Name & Address of all customers whose amount is not known.	1
xv)	Display names of customers in uppercase joined with first 5 characters of city in lower case, for all customers.	1
xvi)	Insert a new row in the table: 7, 2016-11-08, Khan, Kolkata, 24500	1
c)	Predict the output of: i) Select Concat(Char(67), Mid("School",-3,3)); ii) Select Round(6928.658,-2),Truncate(6928.658,-2); iii) Select 5+9*2%5+3-8*2;	1 1 1
d)	Find the errors and rewrite the corrected queries: i) Select len(Cust_Name)%Instr(Cust_Name, 'a') from Customer; ii) Select TRIM(Trailing and Leading '#' from '##TWITTER##'); iii) Select DayMonth(2016-01-01); 000	1 1 1