

INDIAN SCHOOL SOHAR **UNIT TEST (2017-18) INFORMATICS PRACTICES (065)**

Class: XII Marks: 50 Date: 23 May, 2017 Time: 2 Hours

Instructions:

- i) All questions are compulsory.
- ii) Answer the questions after carefully reading the text.
- 1. Answer the following questions:
 - What is the significance of On Delete/Update Cascade? 2 What is All-or-none concept in context of transaction handling? 2 ii)

 - Briefly explain equi-join. 2 iii)
 - iv) What are the different types of SQL functions? 2 v) Write a short note on Integrity Constraints. 2
 - How is an 'if' statement more versatile than a 'switch' statement? vi) 2
 - vii) What is casting? When do we need it? 2
 - viii) What are containers or container controls? 2 2
- Distinguish between unary, binary and ternary operators. ix)
- 2. Find the output:

int x=5, y; while(x < = 8) y=++x + x*2;

System.out.println(y);

3. Rewrite the following code using 'for' loop:

int c=0, i=2; while(i<=5) c=++i-i*2;

System.out.println(c);

4. Rewrite the following code using 'switch':

if(m=='D')s="Dubai"; else if(m=='A' || m=='a') s="Abu Dhabi"; else s="Muscat";

5. Write Java expression for:

 $\frac{x}{4v^2} + \log(xy)$

2

2

2

1

Handset

Field	DataType	Constraint
SetCode	Char(2)	Primary Key
SetName	Varchar(20)	Not Null
TouchScreen	Char(1)	
PhoneCost	Int	

Table: Handset

SetCode	SetName	TouchScreen	PhoneCost
N1	Nokia 2G	N	5000
N2	Nokia 3G	Υ	8000
B1	BlackBerry	N	14000

Table: Customer

CustNo	SetNo	CustAddress
1	N2	Delhi
2	B1	Mumbai
3	N2	Mumbai
4	N1	Kolkata
5	B1	Delhi

6. Write SQL commands for the following on the basis of tables given above:

٠.	******	and a communities for the following on the pasts of tables breat above.	
	i)	Create the table Handset including its constraints.	2
	ii)	Add a foreign key constraint on SetNo of customer table.	1
	iii)	Show set number, set name, customer number and address of all customers	1
	iv)	Increase the price of all touchscreen headsets by 15%	1
	v)	Display details of customers whose set number is not known.	1
	vi)	Display the price of costliest Nokia handset.	1
	vii)	Add a new column ManufactDate as Date into handset table.	1
	viii)	Show set number, cost and discounted cost(cost-5% of cost) for all handsets.	1
	ix)	Count the number of customers for each handset.	1
	x)	Show the sum of handset cost of customers in each city.	1
	xi)	Show a report: <custno> bought <setname> handset.</setname></custno>	1
	xii)	Show details of handsets with price in the range 8,000-10,000 in increasing order.	1
	xiii)	Add a Not Null constraint on PhoneCost.	1
	xiv)	What will be the degree and cardinality of cross product of both the tables.	1
	xv)	Count the number of Mumbai customers.	1
	xvi)	Delete records of all handsets manufactured before 2010.	1
	xvii)	Change the size of touchscreen column to char(2).	1
	xviii)	Show the number and address of all customers. If the address is not known, show	1
		'Awaited'.	
7. Fi	Find t	he errors (if any) in the following SQL commands and rewrite the corrected code:	
	i)	Select LCase(Mid('Carefully', -5) New String;	1
	ii)	Select Char(65, 65.5, '65.5') from handset;	1
	iii)	Select Day('2017-1-01')·	1

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ii)	Select Char(65, 65.5, '65.5') from handset;	1
iii)	Select Day('2017-1-01');	1

- 8. Find the output of following SQL commands: Select c.setno, h.setname from handset h, cutomer c where c.setno=h.setcode and 1 c.custaddress='Delhi'; ii) Select 2*9/6-8*3-8 as result; 1
 - iii) Select Round(879.85, -1), Round(879.85, -2); 1