

# **INDIAN SCHOOL SOHAR FINAL EXAMINATION (2018-19) INFORMATICS PRACTICES**

CLASS: XI	
DATE: 03	/03/2019

MAX. MARKS: 70 **DURATION: 3HRS** 

Instructions:					
	s are compulsory.				
b. Answer the que	stions after carefully reading the text.				
1. Answer the following questions:					
a. What is an C	perating System? Name two types of OS.	2			
b. Write any tw	o advantages and disadvantages of Light Pen.	2			
c. Differentiate between volatile and non-volatile memory.					
d. Write short i	note on:				
i) Worms	ii) Utilities	2			
e. What is Spar	n? Why has it become a big internet issue?	2			
2.					
a. What is the	difference between 'x' and "x" in java?	1			
b. What is fall t	hrough?	1			
c. Differentiate	between exit and entry controlled loop.	2			
d. Write the corresponding java expressions for the following:					
i)A= 2-4y(P +Q	) <sup>2</sup> ii) e <sup>x</sup> -x				
e. Define the fo	e. Define the following terms:				
i) Robustness	ii) Pretty Printing				
3.					
a. Write any fo	ur advantages of DBMS.	2			
b. Explain SUBSTR function with suitable example.					
c. Differentiate between Update and Insert commands.					
d. Explain the difference between Table and Column constraint.					
e. Differentiate	between IN and BETWEEN clauses in SELECT statement. Give example.	2			

4.

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int a=5,b;

b=a++ + ++a - a- -;

System.out.print(b);

System.out.println(a++);

System.out.print(a--);

System.out.print(a);

b) Rewrite the following code using 'if' statement:

switch(i) { case 1:

case 2: x+=1;break;

case 3: x+=2;break;

default: x+=3; }

c) Find the errors from the following code segment and rewrite the corrected code:

int n=Integer.parseInteger(jtext1.getText);

int i=1,j;

for( ; i<n; i++; )

j\*=i;

jtext2.setText(j);

d) Rewrite the following code using while loop

```
for(int a=5,i=0;++i<5;)
```

{

```
switch(i){
```

case 0:++a; break;

```
case 1:a*=1;break;
```

case 2:a\*=2;break;

# 

```
System.out.print(a);
```

e) Write a program in java to print the sum of the following series for n number of terms:

$$1 + \frac{1}{8} + \frac{1}{27} + \frac{1}{64} + \frac{1}{125} + \dots$$

f) Write java code that reads the Fahrenheit temperature from jTxtfld1 and display its equivalent degree Celsius in jLbl1. C=5/9(F-32) Where, C= Celsius and F=Fahrenheit.
2

g) Read the following case study and answer the questions that follow:

<u></u>		—		$\times$
Courier Services				
Units Ordered	1-15 🔻			
Customer Type				
O Wholesaler	C	alculate		
⊖ Retailer	Clear	r Exit	)	
Total cost				

A courier service imposes charges to customer's order in two different forms: Wholesaler and Retailer. The cost is calculated on unit basis as follows:

For Units	Wholesaler Price(Rs)	Retailer Price(Rs)
1-15	50	65
16-30	40	55
31-50	30	45
>50	25	35

- i) Write the code to disable the text box 'TotcostTF' and set wholesaler as the default customer type .
- When user clicks the clear button, clear the text field TotcostTF and set units 1-15 as the default value of units ordered.

1

1

2

1

iii) When calculate button is clicked calculate and display the total cost. An extra amount

(ie,2% of cost) is charged as VAT on each delivery.(Total cost=cost + VAT)

iv) When Exit button is clicked exit the application.

## 5.

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

### Voter : Table structure

Column name	Data Type	Constraint
Vid	Char(3)	
Vname	Varchar(20)	
DOB	Date	
Age	Integer(2)	Not null
Address	Varchar(15)	
Status	Varchar(10)	

### Voter:Table

	Vid	Vname	DOB	Age	Address	Status	
	V01	Ashna	2000-02-01	19	Mumbai	Single	
	V02	Joby	1998-10-12	20	Puna	Single	
	V03	Cathrene	1990-03-28	28	Kanpur	Married	
	V04	Hiral	1995-10-20	23		Married	
	V05	Blesson		18	Delhi	Single	
	V06	Nadir	1987-11-19	32		Married	
i) Crea	ate table Vote	r based on the stru	icture given abov	e.			2
ii) Ins	ert a new row	with values: V07,N	/lidun,30,Mumba	ai.			1
iii) Ado	d a Primary ke	y constraint to Vid					1
iv) Dis	play the name	e,age and place of a	all voters whose I	oirthday con	nes in october	month.	1
v) Cha	ange the statu	is and address of Jo	by to Married ar	nd Mumbai r	espectively.		1
vi) List	the details of	all voters except f	rom Mumbai and	d Delhi in de	scending order	r of their age.	1
vii) Dis	play the id and	d place of voters w	hose name starts	s with 'N' an	d contains only	y 5 characters.	1
viii)Cha	ange the datat	type of address to	char of size 15.				1
ix) List	the position of	of 'an' in voter's na	me whose addre	ss is mentio	ned.		1
x) Rei	move the lead	ling and trailing spa	aces from the add	dress of all N	Narried voters	aged above 20.	. 1
xi) List	the name an	d date of birth of a	II voters (if date o	of birth is no	t mentioned, r	eplace the	
tex	t with 'not-av	ailable').					1
xii) Rei	move the deta	ails of voters born	after 2000.				1
xiii)Cre	ate a new tab	le "Voterlist" cons	isting of all detail	s of voters v	vhose ages are	between 18	
and	20.						1
b. Write	e the output o	of the following que	eries:				
i) Sel	ect Char(74,9	7,85.8,'97.7') as Va	lue;				1
ii) Sel	ect dayofweel	k(curdate()) + sqrt(	9);				1
iii) Sel	ect Truncate(7	7654.456,2),Round	(7654.456,-2);				1
c. Rem	ove the errors	s (if any) from the f	ollowing queries	and rewrite	the corrected	ones.	
		sysdate())%5);	01				1
•	op from table						1
	-	oterslist",length("vo	oters"));				1
6.	·						
a. Nan	ne two e-busir	ness portals.					1
b. How	ı has e govern	ance benefitted to	common man?				1
c. Writ	te any two be	nefits that e-busine	ess offers to an o	rganization.			1
d. Defi	ne e-learning	? Why do you thinl	ke-learning cours	ses have hig	h dropout rate	?	2

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