INDIAN SCHOOL SOHAR
TERM I EXAMINATION (2018-19)
INFORMATICS PRACTICES (065)

CLASS: XII   **MAX. MARKS: 70**
DATE: 25/09/2018   **DURATION: 3 HRS.**

Instructions:
   i) All questions are compulsory.
   ii) Answer the questions after carefully reading the text.

1.	a)	What is a transaction? Explain using suitable example.	2
	b)	Differentiate between Single Row and Multiple Row functions.	2
	c)	Define SQL and MySQL.	2
	d)	Briefly explain SAVEPOINT statement using suitable example.	2
	e)	Write any two advantages and two disadvantages of a DBMS.	2
	f)	Explain the purpose of 'On Delete No Action'.	2
	g)	A database mydb contains three tables namely class, marks and sports. When following commands are executed, error is generated. What could be the problem? Drop database mydb; Drop table class; Drop table marks; Drop table sports;	1
	h)	Which clause should you use to exclude group results?	1

2.	a)	Which protocols are used for:
		  i) Transferring files from one machine to the other
		  ii) email
			2

	b)	What is the role of return statement in a method?	2
	c)	What do you understand by Class and Object?	2
	d)	Differentiate between <P> and tags	2
	e)	Explain, using suitable examples, the syntax and working of append and insert methods of StringBuffer class.	2
	f)	What is inheritance? What are its advantages?	2

	g)	Name the class used for creating:
		  i) a list control
		  ii) a combo box
			2

	h)	A label by default allows only one line of text to be displayed. Can you display multiple lines of text in a label? If so, how?	1
	i)	Reserved words having special meaning and purpose are called _____	1

3. a) Find the values of x and y: 2
   ```
   int x, y=0;
   for(x=1;x++<=5;++x)
       y=x; --y;
   ```

   b) Find the output of the following Java code snippet after execution of each java   2
   statement labelled as Stmt 1, Stmt 2, Stmt 3, Stmt 4:
   ```
   String str1="VASUDHAIVA",str2="KUTUMBAKAM";
   jTextArea1.append((str1.substring(0,4))); //Stmt 1
   jTextArea1.append((str2.substring(4))); //Stmt 2
   jTextArea1.setText(jTextArea1.getText()+jTextArea1.getText().length());//Stmt 3
   jOptionPane1.showMessageDialog(null,jTextArea1.getText().length()); //Stmt 4
   ```

   c) Find the errors from the following code segment and rewrite the corrected code   2
   underlining the correction made:
   ```
   value1=1, value2=2;
   while(value1<value2)
   jTextArea1.append ("\n"+value1*value2;
   value1++
   }
   ```

   d) Rewrite the following code using 'do...while' loop: 2
   ```
   int num=Integer.parseInt(jTextField1.getText());
   while(num<=40)
   {
   jOptionPane1.showMessageDialog(null,num);
   num=num*20;
   }
           jOptionPane1.showMessageDialog(null,"Bye Bye");
   ```

   e) Write HTML code for: 3
   i) changing the visited link colour to Green and unvisited link colour to Magenta
   ii)inserting an image computer.jpg at the center of the page
   iii) creating a hyperlink "www.cbse.nic.in" to the text "CBSE"

   f) Create the following form using HTML code   2

   Customer ID [_____]
   Password [_____]

   Membership [Platinum ▼]

   g) Ms. Neelam works as a programmer in "Kidz Entertainment Zone". She has
   designed a Registration Page to calculate the total fee of summer camp depending
   upon the number of activities selected by the user considering age eligibility as
   well. A screenshot of the same is shown below:

Help her in writing the code to do the following:

(i) After entering the age in the specified text field, when 'Chk Eligibility' button is clicked, a dialogue box should be displayed with a message "Welcome" if age is in between 3-13 years else there should be a message "Sorry! You are either underage or overage!!". Additionally the application should be closed if age is inappropriate.   2

(ii) After selecting the desirable activities, total fee should be displayed in the specified text field on the click of "Proceed" button at the rate of Rs. 1000 per activity.   1

(iii) A discount of 20% is applicable if more than one activity is chosen by the user.   1

(iv) After clicking on the "Net Fee" button, Net Fee should be calculated and displayed in the respective text field as per the given formula:
Net Fee = Fee – Discount   2

4.   a)   Write a SQL command for creating a table "**Teacher**" as per structure given below: 2

Field Name	Data Type	Size	Constraint
TNo	Char	4	Primary Key
TName	Varchar	30	Not Null
DOJ	Date		
Salary	Double	7,2	

b) In a database there are two tables as shown below:

Train

TrainId	TName	Source	Destination
3402	Century Express	New Delhi	Mumbai
4023	Superfast Express	Kanyakumari	Chandigarh
3424	Lucknow Mail	Lucknow	New Delhi
6542	Capital Express	Chennai	Kolkata
9876	Punjab Mail	Patna	Ludhiana
5400	Century Express	New Delhi	Kanpur

Reservation

RefNo	TrainId	Passenger	JourneyDate
S001	4023	Shubham Singh	2017-07-02
C001	6542	Jishan Mittal	2017-06-25
S002	4023	Jessica Raj	2017-07-02
P001	9876	Paramjeet Singh	2017-07-22
S003	4023	Gurjyot Singh	2017-07-03
C002	6542	Akash Mukharjee	2017-06-25
P002	9876	Meera Devi	2017-07-22
L001	3424	Ruby Lal	2017-06-29
C003	5400	Tapshree	2017-07-04

Write SQL commands for the following:

i)   Show details of all trains from or to Chennai.   1
ii)   Display details of passengers of Punjab Mail.   1
iii)   Show details of passengers whose travel date is not known.   1
iv)   Count the number of trains starting from Lucknow   1
v)   Count the number of passengers in each train.   1
vi)   Show details of trains having 'express' anywhere in their names.   1
vii)   Add a new row in Reservation table: P007, 9876, Smith Jones, 2017-06-30.   1
viii)   Change the passenger name of L001 to Ruby and also change journey date to   1
        2017-07-15
ix)   Delete records of passengers who travelled before 2017.   1
x)   Count different destinations.   1
xi)   Add a new column Fare as Int into Train table.   1
xii)   To display details of trains which have no reservation yet.   1
xiii)   Add foreign key constraint "FK" on TrainID of passenger table which refers to   1
        TrainID of Train table.
xiv)   Predict the output of:
        i) Select Round(752.64, -2), Round(752.64, -1);   1
        ii) Select Truncate(752.64, -2), Truncate(752.64, -1);   1
        iii) SELECT T.* from Train T, Reservation R where T.TrainId=R.TrainId AND Source   1
        LIKE "%Delhi" OR Destination LIKE "%Delhi";   1
        iv) Select pow(5,2)%length(mid("create",2,4));
xv)   Write statements for displaying:
        i) name of month   ii) current date and time   2

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