INDIAN SCHOOL SOHAR
TERM II EXAMINATION (2018-19)
INFORMATICS PRACTICES (265)

CLASS: XII   **MAX. MARKS: 70**
DATE: 20/11/2018   **DURATION: 3 HRS.**

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

1.	a)	Write down two merits and two demerits of BUS topology	2
	b)	Define Snooping and Eavesdropping.	2
	c)	Briefly explain two types of Indian language text entries.	2
	d)	Differentiate between Proprietary software and Shareware	2
	e)	Expand the following terms: JPEG, FSF	2

2. a)   What are the limitations of switch statement?   2

  b)   What is Function Overloading? Give example.   2

  c)   Write HTML code for creating a form containing: 2
   - A text box for entering name of user
   - A password field for entering password
   - A button for submitting the details (the details should be hidden on submission)

  d)   Rewrite the following XML code to make it well formed: 2
       <name>Jeevan</name>
       <name>Raunak<Name>
       <name>Vasu<name)

  e)   Which methods would you use to determine: 2
   i.   which index has been selected in a list?
   ii.   whether 7th item in a list is selected or not?

3. a)   What are MySQL functions? What is their significance?   2

  b)   What is a foreign key constraint? Write syntax for adding it after creating a table.   2

  c)   Write commands for setting autocommit ON and OFF. Also write command for checking the status of autocommit.   2

  d)   The query Select count(*) from book; is displaying a result different from Select count(title) from book; What can be the possible reason?   2

  e)   Explain Table alias using suitable example.   2

4. Write the code and the event procedures for incorporating the following:

Student Details Form

Enrolment Number

Courses
- ⦿ MBA   ◯ MCA

Facilities available
- ☐ Library
- ☐ Hostel
- ☐ Mess

Charges

[Calculate] [Clear]

i) The library facility should be selected by default. And the default course choice should be MCA course. Also disable charges text field   2

ii) When user clicks 'clear' button all the text fields and check boxes should be cleared.   1

iii) Given that charges for MBA and MCA course are 1200 and 1500 per month; charges for library, mess and hostel are Rs 100, Rs 500 and Rs 2000 respectively per month, write a method 'calculate()' that calculates and displays the charges per semester. This method should be called when user clicks 'calculate' button.   2

5. a) Find errors from the following code segment and rewrite the corrected code underlining the corrections made: 2

```
 public static void main (String [] args){
char ch="A";
  do{
     System.out.print(++ch);
     ch++;
  }while(ch<='C')
  System.out.printLn("Hello");
  }
```

b) Rewrite the following code using 'for' loop: 2

```
main(String []args){
    long a=78345,s1=0,s2=0,r;
    while(a>0){
        r=a%10;
```

```
              if (r%4==0) s1+= r;
              else s2+=r; a/=10;
          }
      System.out.println("S1 ="+ s1+"S2 ="+ s2);
      }
```

c) Find the output: 2
```
int a=0,b=5;
while(a<=5)
   a++;b++;
   System.out.print(a + "\n" +b);
```

d) Create class Employee as: 2

Data members: empNo, empName, empDesig

Member functions: Employee() – default constructor

Employee(…) – parameterized constructor to assign values
to data members

Display() – display employee details

e) What will be the result of following?   2
```
String s="laptop";
System.out.print(s.valueOf(200)+s.valueOf(300)+"OR I need and I can buy 2"
+s);
```

6. a) Write the SQL command to create the following table including its constraints.   2

Table: **SUPPLIER**

Column Name	Data Type	Constraint
SNo	Char(2)	
PName	Char(5)	Not Null
SName	Varchar(25)	Not Null
Qty	Int(3)	>=50
Price	Float(9,2)	

b) Answer the questions based on the tables given below:

Table: Handset

SetCode	SetName	TouchScreen	PhoneCost
N1	Nokia 2G	N	5000
N2	Nokia 3G	Y	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

i.	Count the number of customers in each city.	1
ii.	Show details of customers who purchased Nokia phones	1
iii.	Display the average cost of touch screen phones	1
iv.	Show names of handset in uppercase joined with 1st three characters of customer address in lowercase.	1
v.	Display details of customers excluding Delhi and Mumbai whose phone cost is more than 5000	1
vi.	List details of handsets with cost in the range 1000-2000 in increasing order	1
vii.	Show set number, cost and discounted cost(cost-5% of cost) for all handsets.	1
viii.	Show the number and address of all customers. If the address is not known, show 'Awaited'.	1
ix.	Display details of customers whose set number is not known.	1
x.	Increase the cost of handsets by 10%, if it is less than 5000.	1
xi.	Add a new column 'Warranty' as int into handset table.	1
xii.	Delete details of customers who purchased phones other than Nokia.	1
xiii.	Count total number of cities.	1
xiv.	What will be the degree and cardinality of cross join of both the tables?	1
xv.	Find the error(s): I) Select Concat(Concat(SetName, touchscreen),setcode) from handset; II) Select TRIM(Trailing and Leading '#' from '##GMAIL##');	2
xvi.	Predict the O/P of: I) Select instr(substr("truncated",-5),'t'); II) Select Round(7659.760,-1), Truncate(7659.760,-1);	2

7.	a)	Write any two advantages of e-Business sites. Give URL of any two of the commonly used e-Business portals.	2
	b)	List of features of a good programming interface.	1
	c)	What are the major e-governance challenges for Indian villages?	1
	d)	How has our society benefited from e-learning?	1

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