

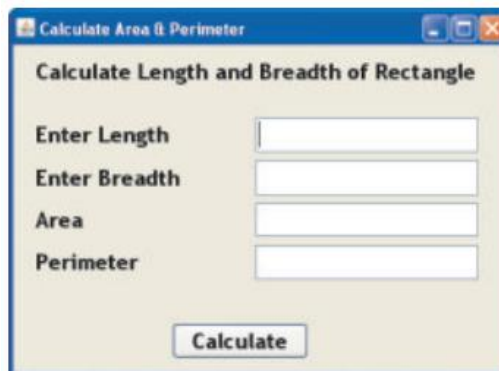
SUB :- INFORMATICS PRACTICES REVISION SHEET

Unit-1. Hardware and Software Concepts

- Q.1. What is the difference between ALU and CU?
- Q.2. What is the use of ROM in a computer system?
- Q.3. How is a function bus different from the communication bus?
- Q.4. Differentiate between single user and multi user operating system.
- Q.5. Name any two language processors with their use.
- Q.6. What is the use of disk defragmentation utility?
- Q.7. What is CIA in terms of a computer security?
- Q.8. What is an antivirus?
- Q.9. What do you mean by digital security?
- Q.10. What is the benefit of IT act?

Unit-2. Introduction to Programming

- Q.1. Write the difference between text field and text area control.
- Q.2. What is the difference between design and source tabs?
- Q.3. Design a GUI desktop application in java to accept temperature in Celsius in a text field and display temperature in Fahrenheit in another text field on the click of a button. The application must have an exit button to end the application and appropriate labels.
- Q.4. What is Boolean data type?
- Q.5. What is the difference between a literal and a keyword?
- Q.6. Design a GUI desktop application in java to accept sales of a company for four quarters in text fields. Calculate the total yearly sale and display the same in a dialog box. Add appropriate labels and an exit button to end the application.
- Q.7. Write the code for the following application:



[Hint : Area of Rectangle=Length*Breadth and Perimeter of Rectangle=2*(Length+Breadth)]

Q.8. What will be the content of jTextField1 after executing the following code:

```
int Num = 88;
Num = Num + 1;
if ( Num > 90)
    jTextField1.setText(Integer.toString(Num));
else
    jTextField1.setText(Integer.toString(Num+5));
```

Q.9. Write the features of a good program.

Q.10. What do you mean by Prettyprinting and Documentation?

Q.11. How many times will the following loop get executed?

```
x = 5;
y = 36;
while ( x <= y)
{ x+=6; }
```

Q.12. What will be the value of x and y after the execution of the following code segment:

```
int x, y=0;
for(x=1;x<=5;++x)
{ y=x++; }
--y;
```

Q.13. What will be the value of j and k after the execution of the following code:

```
int j=10,k=12;
if(k>=j)
{ k=j; j=k; }
```

Q.14. Develop an application to take an input in TextField for a number. If the number is even then Display its square otherwise its cube in a MessageBox.

Q.15. Differentiate between compile time and run time errors.

Q.16. Which error is harder to locate and why?

Q.17. Explain the following terms:

- a) Exception handling
- b) Syntax
- c) Portability
- d) Prettyprinting
- e) Syntax error

Unit-3. MySQL

Q.1. What is the difference between a table and a database?

Q.2. What is the use of a candidate key?

Q.3. Why foreign key is used in a table?

Q.4. Write any two features of MySQL.

Q.5. Consider the following table named “EXAM” with details of marks.

Table : EXAM

Adno	SName	Percentage	Clsection	Stream
R001	Sushant	90.2	12A	Science
R002	Vaidyanath	80.5	12B	Humanities
R003	Miara	68.9	12B	Science
R004	Niara	96.0	12A	Commerce
R005	Shinjini	88.9	12D	Commerce

Write command of MySQL for (i) to (iv) and output for (v) to (vii):

(i) To display all information of the students of humanities in descending order of percentage.

(ii) To display Adno, Name, Percentage and Stream of those students whose name starts with M alphabet.

(iii) To add another column Bus_Fees with datatype and size as Decimal(8,2).

(iv) To increase percentage by 2% of all the Humanities students.

(v) SELECT COUNT(*) FROM EXAM;

(vi) SELECT Sname, Percentage FROM EXAM WHERE name LIKE “N%”;

(vii) SELECT ROUND(Percentage,0) FROM EXAM WHERE Adno is “R005”.

Q.6. Write MySQL command to create the table „Toyz“ with the following structure and constraint:

Table : TOYZ

COLUMN_NAME	DATATYPE(size)	CONSTRAINT
Toy_no	Int(10)	Primary Key
Toy_name	Varchar(20)	
Type	Char(10)	
Price	Decimal(8,2)	
Colour	Varchar(15)	

Q.7. The Item_No and Cost column of a table “ITEMS” are given below:

ITEM_NO	COST
101	5000
102	NULL
103	4000
104	6000
105	NULL

Based on this information, find output of the following queries: (a) SELECT AVG(COST) FROM ITEMS; (b) SELECT COST + 100 FROM ITEMS WHERE ITEM_NO > 103;