LOYOLA SCHOOL, BHUBANESWAR

Second Class Evaluation – November 2025

Class: IX **Subject: Computer Applications F.M.= 20** **Time:40mins.**

Q1. Answer the following by selecting ONE of the appropriate options: **[1x5=5]**

i) Which of the following is a logical error?
   a) Orphaned Case b) Orphaned default
   c) missing break d) missing semi-colon

ii) Which is an optional statement in multiple branching statement?
   a) switch b) case
   c) break d) default

iii) Which operator is known as null statement?
   a) Dot(.) b) Semi-colon(;)
   c) Colon (:) d) Comma (,)

iv) Range of values of Math.random( ) function
   a) From 0 to 1
   b) From 0 but less than 1
   c) Above 0 and less than 1
   d) Above 0 and less than or equal to 1

v) The return type of Math.round( ) is :
   a) int b) long
   c) Integer d) double

Q2. Answer the following as directed: **[1x5=5]**

a) Write java statement to find the square root of N without using Math.sqrt( )
b) System.out.println(Math.ceil(-0.95)); write the output
c) What is common between Math.min( ), Math.max( ) and Math.abs( ) methods?
d) double p=Math.abs(Math.floor(a)); System.out.println(Math.sqrt(p));
e) Rewrite using Multiple Branching Statement:
```
if(select=='A' || select=='U') System.out.println("UpperCase");
else if(select=='a' || select=='u') System.out.println("LowerCase");
else System.out.println("Neither Uppercase nor Lowercase");
```

Q3. Attempt the following programs using BlueJ and Java **[5x2=10]**

a) The equivalent resistance of Series(S) and Parallel(P) connections of two resistances is given by the formula :
   For S, R1=r1+r2
   For P, R2= r1 . r2

$$\frac{}{r1+r2}$$

Write a menu-driven program to accept the values of r1 and r2, also input a choice S for Series and P for Parallel . Find and display the equivalent resistance as per the user-choice. Display a message "Invalid Input" when any other character is entered as choice.

b) Write a program to input Principal , Rate and Time. Also input a choice 1 or 2 .

For 1, find and print the Simple Interest.

$$SI= \frac{P \times R \times T}{100}$$

For 2, find and print the Compound Interest.

$$CI= P \times \left(1+\frac{R}{100}\right)^{T} - 1$$

********** **ALL THE BEST**********