EECS1022 Summer 2019 Test 1 Version A (afternoon) Solutions

Question 1

Correct response is 15,0.33,"%.f"

Question 2

Correct response is "NO\_OF\_STUDENTS"

Question 3

Correct response is "the API specifies how the class's methods are implemented"

Question 4

Correct response is "throws an exception"

Question 5

Correct response is "double"

Question 6

Correct response is "none of the above"

Question 7

Correct response is "none of the above"

Question 8

Correct response is "15"

Question 9

Correct response is "XXX"

Question 10

Correct response is "3.5"

Question 11

Correct response is "false"

Question 12

Correct response is "will be stored at addresses 500 through 503"

Question 13

Correct response is "/"

Question 14

Correct response is "none of the above"

Question 15

Correct response is "none of the above"

Question 16

public static int compute(int x, int y) {

return x \* x + y \* y - x \* y;

}

Question 17

public static String farenheit2Celsius(double degrees) {

return String.format("%.2f", (degrees - 32) \* 5 / 9);

}

Question 18

public static String compute(int x){

return String.format("The base 10 logarithm of %d is %.3f", x, Math.log10(x));

}

Question 19

public static String getBMI(double weight, double height){

final double KG\_PER\_POUND = 0.454;

double weightInLb = weight / KG\_PER\_POUND;

String result = "Your weight is " + String.format("%.0f", weightInLb);

result = result + " lb, your height is " + Utility.m2FtInch(height);

double bmi = weight / (height \* height);

result = result + ", and your BMI is " + String.format("%.1f", bmi) + ".";

return result;

}

Question 20

public static boolean getsRaise(int monthsWorked, double rating){

return monthsWorked >= 6 && rating > 7 || monthsWorked >= 12 && rating > 5;

}