**STIA1113**

**Quiz 1**

**1.**In the Java programming language, all source code is first written in plain text files ending with the \_\_\_\_\_\_ extension.

1. .javac
2. **.java**
3. .class
4. .txt

 Answer: \_\_\_\_\_\_

**2.**The Java compiler generates

1. machine code
2. source code
3. **byte code**
4. HTML

Answer: \_\_\_\_\_\_

**3.**JVM stands for

1. Java Variable Machine
2. Java Variable Method
3. Java Virtual Method
4. **Java Virtual Machine**

 Answer: \_\_\_\_\_\_

**4.**Write a Java program to print the sum of two numbers.

 Answer: \_\_\_\_\_\_ **public class Sum {**

**public static void main(String[] args) {**

**System.out.println(10+10);**

**}**

**}**

**5.**Write the signature of the main method.

Answer: \_\_\_\_\_\_ **public static void main(String args[])**

**6.**These characters mark the beginning of a single-line comment.

1. **//**
2. /\*
3. \*/
4. /\*\*

Answer: \_\_\_\_\_\_ **a**

**7.**Which of the following are not valid assignment statements?

1. sum = 9;
2. **72 = cost;**
3. price = 129;
4. ans = 'y';

 Answer: \_\_\_\_\_\_ **b**

**8.**Which of the following are valid Java identifiers?

1. **myFirstProgram**
2. 1stProgram
3. **Program1**
4. David'sFirstProgram
5. First Program
6. **FIRST\_PROGRAM**

 Answer: \_\_\_\_\_\_ **a, c, f**

**9.**This is a named storage location in the computer's memory.

1. class
2. keyword
3. **variable**
4. operator

  Answer: \_\_\_\_\_\_

**10.**This keyword is used to declare a named constant.

1. constant
2. namedConstant
3. **final**
4. concrete

Answer: \_\_\_\_\_\_

**11.**Which of the following is not primitive data type?

1. **String**
2. double
3. boolean
4. int

 Answer: \_\_\_\_\_\_

**12.**Write Java statements that accomplish the following.

1. Declare int variables a and b.
   1. **int a,b;**
2. Initialize an int variable x to 10 and a char variable ch to 'y'.
   1. **int x=10;**

**char ch='y';**

1. Declare and initialize a double variable payRate to 12.50.
   1. double payrate-12.50;
2. Declare a boolean variable ans and set the value of ans to true.

  Answer: \_\_\_\_\_\_ **boolean ans = true;**

**13.**Write the output of the following expressions.

1. System.out.println(13 / 4); **3**
2. System.out.println(2 + 12 / 4); **5**
3. System.out.println(21 % 5); **1**
4. System.out.println(3 - 5 % 7); **-2**
5. System.out.println(17.0 / 4); **4.25**
6. System.out.println(8 - 5 \* 2.0); **-2.0**
7. System.out.println(14 + 5 % 2 - 3); **12**
8. System.out.println(15.0 + 3 / 2); **16.0**

Answer: \_\_\_\_\_\_

**14.**What is the value of each variable after the last statement executes?

int a, b, c;  
double x, y;  
a = 17;  
b = 15;  
a = a + b / 4;  
c = a % 3 + 4;  
x = 17 / 3 + 6.5;  
y = a / 4.0 + 15 % 4 - 3.5;

 Answer: \_\_\_\_\_\_

**a = 20**

**b = 15**

**c = 6**

**x = 11.5**

**y = 4.5**

**15.**Suppose x, y, and sum are int variables and z is a double variable. What value is assigned to sum variable after statement executes? Suppose x = 3, y = 5, and z = 14.1.

sum = x + y + (int) z;

  Answer: \_\_\_\_\_\_ **22**

**16.**Write equivalent statements using combined assignment for the following, if possible.

1. x = 2 \* x;
2. x = x + y - 2;
3. sum = sum + num;
4. y = y / (x + 5);

Answer: \_\_\_\_\_\_

**x \*= 2;**

**x += y - 2;**

**sum += num;**

**y /= (x+5)**

**17.**Change the SampleProgram.java program so that it displays Programming is fun! instead of Hello World!.

class SampleProgram

{

public static void main(String[] args)

{

System.out.println("Hello World!");

}

}

Answer: \_\_\_\_\_\_

**class SampleProgram**

**{**

**public static void main(String[] args)**

**{**

**System.out.println("Programming is fun!");**

**}**

**}**

**18.**The FixProgram.java has some errors. Fix the errors so that the program successfully compiles and runs.

class FixProgram

{

public static void main(String[] args)

{

System.out.println('Hello World!')

}

}

 Answer: \_\_\_\_\_\_

**class FixProgram**

**{**

**public static void main(String[] args)**

**{**

**System.out.println("Hello World!");**

**}**

**}**