Zambia Centre for Accountancy Studies

NCC Diploma in Computing – Level 4

DDOOCP – Java

Test 1

You are required to answer all questions. Each question carries **4 marks.**

1.0 Which of the following variable names are allowed in Java, and which have the correct style?

Volume	AREA	Length	mysalary
Side1	getFirst	double	
Your salary	screenSize	3sides	

2.0 Suppose we have **double** variables **length** and **breadth**. Write an assignment statement to set the double variable area to the product of **length** and **breadth**.

3.0 Two students take a Java exam and the marks are assigned to two variables:

int mark1 = 60, mark2 = 51;

Write a statement to assign the average of these two marks to a double variable **average**.

4.0 What is the value of **n** after the following sequence of statements?

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```
int n = 1;

n++;

n *= 2;

n * = 3;

n - -;
```

5.0 Suppose we have int **x** = 22, **y** = 33; What is the output by

System.out.println("The sum is " + **x** + **y**);

6.0 Explain what purpose the **main** method in a Java program serves, and provide the code for a main method that creates an instance of the class in which it is contained.

7.0 Explain what is meant by '**primitive'** data type and '**reference'** data type and give an example of each.

8.0 Define the words '**Class'** and '**Object'** and explain the relationship between them.

9.0 Define what is meant by a **strongly typed language** and explain what benefits strong typing provides for software developers.

10.0 What is method overloading? Give an example to illustrate your answer.

11.0 What is an array? Provide java code that declares an array of size 5 and data type double.

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12.0 What are three repetition statements in java? For each, provide a general syntax for the declaration.

13.0 Write a method that takes two double parameters and returns the sum. The method should be publicly accessible by all classes.