

Course Title: Programming 1
Date: 11 / 03 / 2019
No. of Questions: 7 Questions
Time: 1 hour
Using Calculator (No)

University of Palestine



First Midterm Exam
2nd semester 2018/2019
Total Grade: 15

Instructor Name: Eng. EmanAlajrami
Student No.: _____
Student Name: _____
College Name: IT
Dep. / Specialist: _____
Using Dictionary (No)

First Question

No. of Branches (3)

(9 marks)

1. Find the errors in the following code and correct them (state whether it is syntax or logical error). (2 marks)

```
a. if ( number1 == number2 );  
System.out.printf( "%d == %d\n", number1, number2 );
```

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```
b. public clasetest {  
    public void main(String[] args) {  
        System.out.println(Welcome to Java");  
        System.out.println("Welcome to Computer Science")  
        System.out.println("Programming is fun");  
    }  
}
```

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2. What is the output of the following code? (5 marks)

```
a. double d = 3.5 ;  
int x;  
x = (int)d;  
System.out.println(x);
```

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```
b. double area = 7.5;  
System.out.print("area");  
System.out.print(area);
```

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```
c. int x;  
x = 5+6/2*3-2;  
System.out.println( 6.6 -2.2);  
System.out.println(x);  
System.out.println(11+5+"ass"+15+3+2);  
System.out.println((6.6) == (2.2 + 4.4));
```

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d. Assuming that $x = 2$ and $y = 3$, what does each of the following statements display?

a. `System.out.printf("Value of %d + %d is %d\n", x, x, (x + x));`

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b. `System.out.printf("%d = %d\n", (x + y), (y + x));`

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e. `inti = 10;`

`intnewNum = 10 * (++i);`

`System.out.println("i is " + i + ", newNum is " + newNum);`

`int x = 1;`

`int y = x++ + x;`

`System.out.println("y is " + y);`

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3. choose the correct answer: (2 marks)

1. The expression $4 + 20 / (3 - 1) * 2$ is evaluated to

- A. A. 4
- B. B. 20
- C. C. 24
- D. D. 9
- E. E. 25

2. Suppose $x = 1$, $y = -1$, and $z = 1$. What will be displayed by the following statement?

`if (x > 0)`

`if (y > 0)`

`System.out.println("x > 0 and y > 0");`

`else if (z > 0)`

`System.out.println("x < 0 and z > 0");`

- A. $x > 0$ and $y > 0$
- B. $x < 0$ and $z > 0$
- C. $x < 0$ and $z < 0$
- D. none

3. Which of the following is equivalent to $x \neq y$?

- A. `! (x != y)`
- B. `x > y && x < y`
- C. `x > y || x < y`
- D. `x >= y || x <= y`

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3. Write the code that checks a variable called x is EVEN or ODD. (1 marks)

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4. Write **a complete Java program** by using **switch – case** statement to solve the following problem: (2 marks)

Read an integer numbers and print the following statements:

- “ number one” if the number is equal 1.
- “ number Two” if the number is equal 2 .
- “ number Three” if the number is equal 3.
- “ unknown number” if the number is not equal 1 or 2 or 3

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GOOD LUCK