

Course Title: Programming 1
Date: 04 / 06 / 2017
No. of Questions: 2 Questions
Time: 2 hours
Using Calculator (No)

University of Palestine



Final Exam
Second semester 2016 -2017
Total Grade: 50

Instructor Name: Eng. Eman Alajrami
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____

First Question	No. of Branches (6)	30 Marks
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1) Multiple Choice Questions:

```
1. static void nPrint(String message, int n) {
    while (n > 0) {
        System.out.print(message);
        n--;
    }
}
```

What is the printout of the call `nPrint("a", 5)`?

- a. aaaaa
- b. aaaa
- c. aaa
- d. invalid call

2. What is `k` after invoking `nPrint("A message", k-2)`?

```
int k = 3;
nPrint("A message", k-2);
```

- a. 0
- b. 1
- c. 2
- d. 3

3. Suppose array `a` is `int[] a = {5, 2, 3}`, what is `a[0] - A[2]`?

- a. 1
- b. 2
- c. 3
- d. None of the above

4. What is `y` after the following for loop statement is executed?


```
int y = 0;
for (int i = 0; i <= 10; ++i) {
    y += 1;
}
```

- a. 9
- b. 10
- c. 11
- d. 12
- e. None of the above.

5. Which of the following statements are valid array declarations? (you can choose more than one)

- a. `int i = new int(30);`
- b. `double d[] = new double[30];`
- c. `char[] r = new char(1..30);`
- d. `int i[] = (3, 4, 3, 2);`
- e. `float f[] = {2.3, 4.5, 6.6};`

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2) Fix syntax errors in the following code:

```
a. public class Test1 {
    public static void main(String[] args) {
        double i = 1;
        while (i <= 5) {
            xMethod(i);
            i++;
        }
    }

    public static double xMethod(int i) {
        i++;
    }
}
```

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.....

```
b. public class Test {
    public static method1(int n, m) {
        n += m;
        method2(3.4);
    }

    public static int method2(int n) {
        if (n > 0) return 1;
        else if (n == 0) return 0;
        else if (n < 0) return -1;
    }
}
```


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3) What is the output when the following code fragment is executed?

```
int [ ] num= {3,4,1,5,7,20,70};
num [2] = 10;
for (int i=0; i<num.length; i++)
    system.out.print( num[i]);
```

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4. What is the return type of a main method? Can you write a return for it?

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5. What is the output after running this code?

```
public class Test1 {  
    public static void main(String[] args) {  
        int i = 1;  
        while (i <= 5) {  
            xMethod(i);  
            i++;  
        }  
    }  
    public static void xMethod(int i) {  
        int num = 1;  
        for (int j = 1; j <= i; j++) {  
            System.out.print(num + " ");  
            num *= 3;  
        }  
        System.out.println();  
    }  
}
```

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6) Write statements to do the following:
a. Create an array to hold **10** double values.

.....

b. Assign value **5.5** to the last element in the array.

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c. Display the sum of the first two elements.

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