

Course No: MIS 3310
Course Title: Special Topics in MIS,
Computer Graphics
Date: 24-03-2015
No. of Questions: 4
Time: 1 hour
Using Calculator (No)

University of Palestine



Mid-term Exam
First semester
2014/2015
Total Grade: 20

Instructor Name: Dr. Mohammed Awad
Student No.: _____
Student Name: _____
College Name: IT, ENG
Dep. / Specialist: MIS
Using Dictionary (No)

First Question (5 points)

Define each of the following terms:

- **Open source programming:**

- **Encapsulation:**

- **Polymorphism:**

- **Inheritance:**

- **Platform Independent Programming Language :**

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Second Question (5 points)

Sketch with explanation, how Java language acts as a platform independent language

Hint: Use Linux, Windows, and Apple Mac platforms to sketch and explain the answer

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Third Question (5 points)

Show the printout of the following code:

```
public class Test {
    public static void main(String[] args) {
        T t = new T();
        swap(t);
        System.out.println("e1 = " + t.e1 + " e2 = " + t.e2);
    }

    public static void swap(T t) {
        int temp = t.e1;
        t.e1 = t.e2;
        t.e2 = temp;
    }
}

class T {
    int e1 = 1;
    int e2 = 2;
}
```

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Fourth Question (5 points)

Write a Java class to calculate:

- The result of the equation (result= $3x+5y$) using a method of the class.
- The result of the equation (result= $xy+6$) using another overloaded of the same class.

Then, Write another class called "Main", to create objects of the first class and print out the results.

<u>First Class</u>	<u>Second Class</u>

Good Luck