

Course Title: Programming II
Date: / / 2014
No. of Questions: 3 Questions
Time: 120 minutes
Using Calculator (No)

University of Palestine



Final Exam
2013-2014
Total Grade: 50

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

First Question	No. of Branches (1)	5 Marks
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Choose the correct answer:

1. A subclass inherits _____ from its superclasses.

- a. private data b. protected data c. public data d. a and c e. b and c

2. When you implement an instance method that is defined in a superclass, you _____ the original method.

- a. overload b. override c. copy d. call

3. What is item after the following loop terminates?

```
int sum = 0;
int item = 0;
do {
    item += 1;
    sum += item;
    if (sum > 4) break;
}
```

```
while (item < 5);
```

- a. 2 b. 3 c. 4 d. 5 e. None of the above

4. What is the output of running the class C.

```
public class C {
    public static void main(String[] args) {
        Object[] o = {new A(), new B()};
        System.out.print(o[0]);
        System.out.print(o[1]);
    }
}
class A extends B {
    public String toString() {
        return "A";
    }
}
class B {
    public String toString() {
        return "B";
    }
}
```

- a. AB b. BA c. AA d. BB e. None of above

5. Interfaces can be used to declare constants which are implicitly

- a. public b. static c. final d. all of the above

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Program 3:

```
public class Person {
    private String name;
    private Address pAddress;

    public Person (String name, String city, String street, int number, int zip)
    {
        this.name=name;
        pAddress =new Address(city, street, number, zip);
    }
    public Person (String name, Address a)
    {
        this.name=name;
        pAddress = new Address (a);
    }
    public Person (Person other){
        this.name=other.name;
        this.pAddress= new Address (pAddress);
    }
    public void setPAddress(String city, String street, int number, int zip)
    {
        pAddress.setCity(city);
        pAddress.setNumber(number);
        pAddress.setStreet(street);
        pAddress.setZip(zip);
    }
    public String toString(){
        return this.name + ", " + pAddress;
    }
    public static void main (String[]args){

        Address Home=new Address("New York","5th Avenue", 112, 111);

        Person a=new Person("Carl",Home);

        System.out.println(a);
    }
}

public class Address {

    private String city, street;
    private int number, zip;

    public Address (String c, String s, int n, int z){
        city=c;
        street=s;
        number=n;
        zip=z;
    }
}
```

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```
public Address (Address a)
{
    this.city=city;
    this.street=street;
    this.number=number;
    this.zip=zip;
}
```

```
public Address (String c, String s, int n)
{
    zip=0;
    city=c;
    street=s;
    number=n;
}
```

```
public String toString(){
    if (zip==0)
        return "Address: " + street + "st., " + number + ", " + city ;
    else
        return "Address: " + street + "st., " + number + ", " + city + ", " + zip;
}
```

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Program 4:

```
public class Test {
    public static void main(String[] args) {
        T t1 = new T();
        T t2 = new T();
        System.out.println("t1's i=" + t1.i + " and j=" + t1.j);
        System.out.println("t2's i=" + t2.i + " and j=" + t2.j);
    }
}

Public class T {
    static int i = 0; // Please note that i is static
    int j = 0;
    T() {
        i++;
        j++;
    }
}
```

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