



**United International University (UIU)**

Dept. of Computer Science & Engineering (CSE)

Object Oriented Programming -Class Test-2 (A)

Time : 30 minutes

**Student Id:**

**Name:**

1	Write a Java program that creates a class hierarchy for employees of a company. The base class should be Employee, with subclasses Manager, Developer, and Programmer. Each subclass should have properties such as name, address, salary, and job title. The salary of each employee should be a private attribute of the class. Implement methods for calculating bonuses, generating performance reports, and managing projects. Write a display method to display the information of any employee along with their designation. (bonus will be 40% of total salary. In performance report and managing position just include a print to print the task name)	7
2	<div>Find the output of the following program,</div> <div><pre>class PClass{     void mFnc(){         System.out.println("Hello from P Class!");     }      void mFnc(double d1){         System.out.println("Double value: " + d1);     } }  class CClass extends PClass{     void mFnc(){         System.out.println("Hello from C Class!");         super.mFnc(11.22);     }      void mFnc(int a2, double d2){         mFnc(d2);         System.out.println("Integer value: " + a2);     } }  class Main{     public static void main(String[] args) {         PClass pObj = new PClass();         CClass cObj = new CClass();          pObj.mFnc();         cObj.mFnc();         cObj.mFnc(10, 2.99);         cObj.mFnc(3.145);     } }</pre></div>	4+4

b. The following code contains some errors. Fix the errors by adding new lines or by updating existing lines of code. You cannot remove any line of code. In the answer script, only write the lines that were added / updated. The correct code should produce the given output.

```
class Book{
    void description(){
        System.out.println("Books are awesome!");
    }
}

class PaperbackBook extends Book{
    void putPageMarker(int pageNo){
        System.out.println("Page marker was " +
            "put on page no: " + pageNo);
    }
}
```

```
class Test{
    public static void main(String[] args) {
        Book book1, book2;
        book1 = new Book();
        book2 = new PaperbackBook();

        book1.description();
        book2.description();
        book2.putPageMarker();
    }
}
```

**Output:**

Books are awesome!  
Paperback books are good for your eyes!  
Page marker was put on page no: 50