Question 1.   [4 MARKS]

- State
- Composite
- Factory
- Observer

Question 2.   [2 MARKS]

```
class Singleton extends SuperSingleton {

    // public instance initialized when loading the class
    public static Singleton instance = new Singleton();

    private Singleton()
    {
        // private constructor
    }

    @Override
    protected Object clone()
        throws CloneNotSupportedException
    {
        throw new CloneNotSupportedException();
    }
}
```

Question 3.   [6 marks]

1) Favor composition over inheritance 2) Bridge 3) ...

Question 4.   [4 marks]

Liskov