# Quiz 2

Deadline	N/A
Latest Submission	Friday, 23 August 2019 at 9:48AM
Raw Mark	7.00/7.00 (100.00%)
Late Penalty	N/A
Final Mark	7.00/7.00 (100.00%)

### Question 1 (1 mark)

Which of the following statements is FALSE in relation to generics?

(a)	A generic class used without type arguments is known as a <i>raw type</i>
(b)	You cannot instantiate an array of a generic type using new operator e.g., T[] anArray = new T[100]
(c)	Consider the following method, someMethod(Box <number> n) { /* */}, this method can take in a Box<integer> or Box<double></double></integer></number>

✓ Your response was correct.

Mark: 1.00

### Question 2 (1 mark)

Consider the following code:

```
public interface xyz {
  void abc() throws IOException;
}
public interface pqr {
  void abc() throws FileNotFoundException;
}
public class Implementation implements xyz, pqr {
  // insert code
  { /*implementation*/ }
}
```

Which of the following statement(s) can you insert in place of "// insert code" comment?

(a) O	public void abc() throws FileNotFoundException, IOException
(b) O	public void abc() throws IOException
(c) <u></u>	public void abc() throws FileNotFoundException

✓ Your response was correct.

Mark: 1.00

## Question 3 (1 mark)

A design pattern used to enhance a component's functionality dynamically at run-time is:

(a) O	Composite Pattern
(b) 💿	Decorator Pattern
(c) O	Abstract Factory Pattern
(d) O	Observer Pattern

✓ Your response was correct.

Mark: 1.00

### Question 4 (1 mark)

- Which Design Pattern should you use when....
  - there is a language to interpret, and you can represent statements in the language as abstract syntax trees.

(a) O	Singleton
(b) O	State
(c) <b>(c)</b>	Composite
(d) O	Factory

✓ Your response was correct.

Mark: 1.00

### Question 5 (1 mark)

Identify the pattern used in this code:

(a) O	Strategy
(b) O	State
(c) O	Factory
(d) •	Decorator

✓ Your response was correct.

Mark: 1.00

#### Question 6 (1 mark)

Which of the following exceptions must be handled by a try-catch block or declared?

(a) O	NullPointerException
(b) •	MalformedURLException
(c) O	ClassCastException
(d) O	ArithmeticException

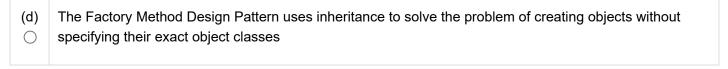
✓ Your response was correct.

Mark: 1.00

### Question 7 (1 mark)

Which of the following statements is NOT true?

(a)	The Builder Pattern is a violation of the law of demeter
(b)	Decorators provide a flexible alternative to inheritance for extending functionality.
(c)	The observer pattern provides a design where subjects and observers are loosely coupled



✓ Your response was correct.

Mark: 1.00

✓ Submit