Practice Review

Total points 7

1. True or false: You can write generic code without losing type safety. **1 / 1 point**

- (●) True
- ( ) False

Correct
Correct. You can write generic code without losing type safety.

2. Which of the following are benefits of using generics? (Select all that apply) **1 / 1 point**

- [x] Enables programmers to implement generic algorithms

Correct
Right.

- [ ] Allows the use of downcasting
- [x] Stronger type checks at runtime

Correct
Yes.

- [x] Elimination of casts

Correct
Yes.

3. True or false: When a generic is invoked, the actual type is replaced by the arguments used for that specific invocation. **1 / 1 point**

- (●) True
- ( ) False

Correct
Yes. When a generic is invoked, the actual type is replaced by the arguments used for that specific invocation.

4. A class defined within another class is called _____ . **1 / 1 point**

- ( ) a serial class
- (●) a nested class
- ( ) an inner class

Correct
Correct.

5. If a declaration of a type in a particular scope has the same name as another declaration in the enclosing scope, then the declaration _____ the declaration of the enclosing scope. **1 / 1 point**

- ( ) duplicates
- ( ) serializes
- (●) shadows

Correct
Right!

6. A class associated with an instance of its enclosing class and has direct access to that object's methods and fields is called _____ . **1 / 1 point**

- ( ) shadowing
- (●) an inner class
- ( ) a nested class

Correct
Yes.

7. _____ provide a way to declare the types of objects in a container. 1 / 1 point

- ○ Casting
- ○ Abstract classes
- ◉ Generics

Correct
Correct.