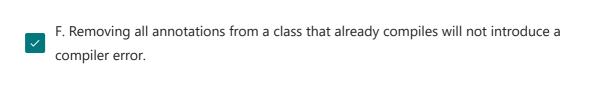# MOCK_TEST_DAY12_ConcurAnnot

* Required

1. Participant Name: *

   Enter your answer

2. **What modifier is used to mark an annotation element as optional? (1 Point)**

   ◇

   ○ A. optional

   ⦿ B. default

   ○ C. required

   ○ D. value

   ○ E. case

   ○ F. None of the above

3. **Which statements about the @Override annotation are correct? (Choose three.) (1 Point)**

   Please select 3 options.

   ☑ A. It can be optionally specified when a class implements an abstract interface method.

   ☑ B. Adding it to a method may trigger a compiler error.

   ☐ C. It is required whenever a class implements an abstract interface method.

   ☐ D. It can be added to an interface declaration type.

☑ E. It can be optionally specified when a method is overridden in a subclass.

☐ F. It is required whenever a method is overridden in a subclass.

4. **Fill in the blank with the correct annotation usage that allows the code to compile.**

public interface CelestialBody {
  String name();
double size() default 100;
int lightYears = 2;
}
_____ class Planet {}
(1 Point) ◇

○ A. @CelestialBody(name="Venus")

○ B. @CelestialBody(name="Pluto", size=2, lightYears=5)

○ C. @CelestialBody(lightYears=10)

○ D. @CelestialBody("Jupiter")

○ E. @CelestialBody(size=3)

◉ F. None of the above

5. **Fill in the blank with the correct value for @Target that allows the code to compile.**

import java.lang.annotation.*;
@Target({_____})
public @interface LightSource {}
@LightSource class Bulb {
@LightSource void lightSwitch() {}
@LightSource private Bulb() {}
} (1 Point) ◇

○ A. ElementType.METHOD, ElementType.CONSTRUCTOR

○ B. ElementType.ANNOTATION_TYPE

◉ C. ElementType.CONSTRUCTOR, ElementType.TYPE, ElementType.METHOD

○ D. ElementType.TYPE_USE

○ E. ElementType.LOCAL_VARIABLE, ElementType.FIELD

○ F. None of the above

6. **Which of the following are marker annotations? (Choose three.)** (1 Point)

Please select 3 options.

☐ A. @Target

☑ B. @Inherited

☑ C. @Override

☐ D. @Retention

☐ E. @Repeatable

☑ F. @Documented

7. **Given the following declarations, which annotations can fill in the blank that would allow the code to compile? (Choose three.)**

public @interface Music {
String value() default "violin";
}
class Orchestra {
_____ void play() {}
} (1 Point)

Please select 3 options.

☐ A. @Music(super="piccolo")

☑ B. @Music("viola")

☐ C. @Music(value()="bass")

☑ D. @Music

☐ E. @Music(default="flute")

☑ F. @Music(value="cello")

8. **An annotation cannot be applied to which of the following?** (1 Point) ◇

○ A. Class declaration.

○ B. Annotation declaration.

○ C. Inner class declaration.

○ D. Cast operation.

○ E. Local variable declaration using var.

◉ F. An annotation can be applied to all of the above.

9. **Which statements about annotations are correct? (Choose three.)** (1 Point)

Please select 3 options.

☐ Annotations contain data that changes throughout the program execution.

☑ B. Adding an annotation to a class that already compiles may trigger a compiler error and cause it to fail to compile.

☑ C. Annotations contain metadata about a Java type.

☐ D. Annotations cannot be applied to lambda expression variables.

☐ E. Annotations cannot be applied to other annotations.

☑ F. Removing all annotations from a class that already compiles will not introduce a compiler error.

10. **Given the following declarations, which annotations can fill in the blank that would allow**
    the code to compile? (Choose three.)

```
   import java.util.*;
public @interface Vacuum {
String[] value();
}
class Appliance {
_____ void clean() {}
} (1 Point)
```

Please select 3 options.

☑ A. @Vacuum({})

☑ B. @Vacuum({"upright","new"})

☐ C. @Vacuum(List.of("portable"))

☐ D. @Vacuum

☑ E. @Vacuum("handheld")

☐ F. @Vacuum(default="shop")

11. **Which annotation can be applied to an existing annotation X and ensures**
    a class that uses X shows the annotation in its generated Javadoc? (1 Point)
    ◇

🔘 A. @Documented

⚪ B. @Generated

⚪ C. @JavaDoc

⚪ D. @PreserveAnnotations

◯ E. @Retention

◯ F. None of the above

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