Java Essentials MCQs

# Exception Handling

1. 1. Which block is used to handle exceptions in Java?

* ☐ try
* ☐ catch
* ☐ finally
* ☐ throw

✅ Answer: catch

1. 2. Which keyword is used to declare an exception in a method signature?

* ☐ throw
* ☐ throws
* ☐ try
* ☐ catch

✅ Answer: throws

# Lambda Expressions

1. 1. What is required for using a lambda expression in Java?

* ☐ A method with any return type
* ☐ A functional interface
* ☐ A class with static method
* ☐ An abstract class

✅ Answer: A functional interface

1. 2. Which Java version introduced lambda expressions?

* ☐ Java 6
* ☐ Java 7
* ☐ Java 8
* ☐ Java 9

✅ Answer: Java 8

# Annotations

1. 1. Which annotation indicates a method is overriding a superclass method?

* ☐ @Deprecated
* ☐ @Override
* ☐ @SuppressWarnings
* ☐ @Inherited

✅ Answer: @Override

1. 2. Which annotation suppresses compiler warnings?

* ☐ @SafeVarargs
* ☐ @SuppressWarnings
* ☐ @Override
* ☐ @FunctionalInterface

✅ Answer: @SuppressWarnings

# Modules

1. 1. What file is used to define a Java module?

* ☐ module.xml
* ☐ module-info.java
* ☐ module.properties
* ☐ mod.config

✅ Answer: module-info.java

1. 2. Which keyword is used to require another module in Java?

* ☐ import
* ☐ include
* ☐ require
* ☐ requires

✅ Answer: requires

# Optionals

1. 1. What does Optional.ofNullable() do?

* ☐ Throws exception if null
* ☐ Creates Optional if value is not null
* ☐ Creates Optional even if null
* ☐ Ignores null values

✅ Answer: Creates Optional even if null

1. 2. Which method checks if an Optional contains a value?

* ☐ get()
* ☐ isEmpty()
* ☐ isPresent()
* ☐ exists()

✅ Answer: isPresent()

# Dependency Injection

1. 1. What is the main benefit of Dependency Injection?

* ☐ Tight coupling
* ☐ Code duplication
* ☐ Loose coupling
* ☐ Inheritance

✅ Answer: Loose coupling

1. 2. Which annotation is used in Spring to inject dependencies?

* ☐ @Autowired
* ☐ @Inject
* ☐ @Component
* ☐ @Bean

✅ Answer: @Autowired

# I/O and File Operations

1. 1. Which class is used to read text from a file efficiently?

* ☐ File
* ☐ FileWriter
* ☐ BufferedReader
* ☐ ObjectInputStream

✅ Answer: BufferedReader

1. 2. Which package contains Java I/O classes?

* ☐ java.io
* ☐ java.util
* ☐ java.nio.file
* ☐ java.net

✅ Answer: java.io