

Java Type Casting - MCQ Practice Test

1. What does JDK stand for?

- A. Java Developer Kit
- B. Java Deployment Kit
- C. Java Debugging Kit
- D. Java Design Kit

2. What is the role of JRE?

- A. Compiles Java programs
- B. Provides tools to develop Java apps
- C. Runs Java programs
- D. None of the above

3. Which component contains the Java Compiler?

- A. JVM
- B. JRE
- C. JDK
- D. JAR

4. Which of the following is true about JVM?

- A. JVM is platform-independent
- B. JVM is platform-dependent
- C. JVM compiles Java code
- D. JVM is used only in Android

5. What is the correct order of Java execution?

- A. Source Code -> Bytecode -> Machine Code
- B. Bytecode -> Source Code -> Machine Code
- C. Machine Code -> Bytecode -> Source Code
- D. Source Code -> Machine Code -> Bytecode

6. What is a compile-time error?

- A. Error after program runs
- B. Error found by JVM
- C. Error found by compiler

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D. None of the above

7. What is a runtime error?

- A. Occurs while writing code
- B. Occurs during program execution
- C. Detected at compile time
- D. None of the above

8. What will this code output?

```
public class Test {  
    public static void main(String[] args) {  
        System.out.println(args[0]);  
    }  
}
```

- A. Compilation error
- B. Runtime error if no arguments
- C. Prints args[0] if given
- D. Both B and C

9. Which command compiles a Java file?

- A. javac File.java
- B. java File.java
- C. compile File.java
- D. run File.java

10. What is the extension of bytecode files in Java?

- A. .java
- B. .exe
- C. .txt
- D. .class

11. What happens if you execute `java` without compiling?

- A. It runs fine
- B. Gives ClassNotFoundException

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C. Compilation happens automatically

D. None of the above

12. What is the role of the `main` method?

A. Entry point of program

B. Used to declare variables

C. Compile the program

D. None of the above

13. Which is a valid Java command line usage?

A. java MyClass arg1 arg2

B. java -run MyClass

C. javac -r MyClass

D. run MyClass

14. What is the output of: `java Hello World` assuming Hello.java contains `System.out.println(args[1]);` and you run with 1 argument?

A. Hello

B. World

C. ArrayIndexOutOfBoundsException

D. Compilation error

15. Which tool converts `.java` files to `.class`?

A. java

B. javac

C. jar

D. javadoc