

Topic	Description	Importance (out of 10)
Java Basics	Syntax, data types, variables, operators, control flow (if, switch, loops)	10
Object-Oriented Programming	Classes, objects, inheritance, polymorphism, encapsulation, abstraction	10
Core APIs	String, Math, Wrapper classes, Collections Framework (List, Set, Map), Generics	9
Exception Handling	try-catch-finally, custom exceptions	8
Java I/O	File input/output, streams, serialization	7
Multithreading & Concurrency	Threads, synchronization, concurrent collections, thread pools	9
Java Standard Library	java.lang, java.util, java.math, java.time	8
Java 8+ Functional Programming	Lambda expressions, Stream API, functional interfaces	9
JDBC (Database Connectivity)	Connecting to databases, executing SQL queries	8
Networking	Sockets, URL handling, HTTP requests	7
GUI Programming	Swing, JavaFX basics	6
Annotations & Reflection	Metadata processing and runtime introspection	7
Build Tools	Maven, Gradle basics	7
Unit Testing	JUnit, TestNG	8
Design Patterns	Singleton, Factory, Observer, Decorator	8

Java EE Basics	Servlets, JSP, basics of web applications	7
Frameworks (Spring, Hibernate)	Dependency Injection, ORM, transaction management	9
Java Modules System	Modularization concept introduced in Java 9	6
JVM Internals & Performance	Garbage collection, memory management, JVM tuning	7
Reactive Programming	Introduction to Reactive Streams and frameworks like RxJava	6