

Review

R1

Java

J1	Imperative programming, standard library, types	All	J10	Integer, autoboxing, Math, Random	Q1
J2	Types, objects, classes, inheritance, interfaces	All	J11	Character and String	Q1,Q3
J3	Naming, literals, primitives	All	J12	Generics	Q4
J4	Arrays, operators, expressions, statements, blocks	All	J13	Type Inference	Q4
J5	if-then-else, switch	All	J14	Collections and sorting	Q3, Q4
J6	while, do-while, for	All	J15	Java exceptions, catch or specify, Java syntax	Q4
J7	parameters, return values	All	J16	Threads	Q6
J8	Nested classes	Q1,Q3			

Object Oriented Programming

O1	Class declaration, object creation	All
O2	Initializers, access control, nested classes, enum types	Q1,Q3, Q4
O3	Interfaces	Q3,Q4
O4	Inheritance, overriding, polymorphism, super	Q3,Q4
O5	java.lang.Object, final, abstract	Q5

Java FX

“I want to know [what] we need to grasp about JavaFX.”

JavaFX is **examinable** in main exam, but isn't in the sample exam.

You won't be expected to memorize details, but understand concepts.

Abstract Data Types (ADTs)

A1	List implementation 1	Q1,Q3,Q4
A2	List implementation 2	Q1,Q3,Q4
A3	The set ADT and its implementation	Q1,Q3,Q4
A4	Hash tables	Q4
A5	Trees	Q1,Q4
A6	Map ADT implementation, ADT recap	Q1,Q3,Q4

Core Computer Science

C1	Recursion	Q1
C2	Hash functions, choosing a good hash function	Q5
C3	Hashing applications, Java's hashCode()	Q5
C4	Files	Q2
C5	Computational Complexity	Q6
C6	Grammars	Q6
C7	Threads	Q6

Software Engineering

S1	IDEs, revision control, Git	All
S2	Git	All
S3	TDD, JUnit	Q3