Topic	Detail					
What is Java?						
	Describe the features of Java			x		
	Describe the real-world applications of Java		x			
Java Basic						
	Describe the Java Development Kit (JDK) and the Java Runtime Environment (JRE)			x		
	Describe the components of a basic Java program		x			
	Describe the components of object-oriented programming		X			
	Compile and execute a Java program (mit IntelliJ?)	?				?
Basic Java Elements						
	Identify the conventions to be followed in a Java program		x			
	Use Java reserved words		x			
	Use single-line and multi-line comments in Java programs	x				
	Import other Java packages to make them accessible in your code			x		
	Describe the java.lang package			x		
Working with Data Types						
	Declare and initialize variables including a variable using final		x			
	Cast a value from one data type to another including automatic and manual promotion		x			
	Declare and initialize a String variable	x				
Java Operators						
	Use basic arithmetic operators to manipulate data including +, -, *, /, and %	x				
	Use the increment and decrement operators					
	Use relational operators including ==, !=, >, >=, <, and <=		x			
	Use arithmetic assignment operators	x				
	Use conditional operators including &&, ||, and ?	x				
	Describe the operator precedence and use of parenthesis		x			
String Class						
	Develop code that uses methods from the String class			x		
	Format Strings using escape sequences including %d, %n, and %s	x				
Random und Math Class						
	Use the Random class		x			
	Use the Math class					
Decision Statements				x		
	Use the decision making statement (if-then and if-then-else)	x				
	Use the switch statement		x			
	Compare how == differs between primitives and objects					x
	Compare two String objects by using the compareTo and equals methods (Objekt – Inhalt?)			x		
Looping Statements						

https://education.oracle.com/java-foundations/pexam_1Z0-811

Topic	Detail					
	Describe looping statements	x				
	Use a for loop including an enhanced for loop		x			
	Use a while loop	x				
	Use a do- while loop	x				
	Compare and contrast the for, while, and do-while loops	x				
	Develop code that uses break and continue statements	x				
Debugging & Exception Handling						
	Identify syntax and logic errors		x			
	Use exception handling			x		
	Handle common exceptions thrown			x		
	Use try and catch blocks		x			
Arrays und ArrayList						
	Use a one-dimensional array		x			
	Create and manipulate an ArrayList		x			
	Traverse the elements of an ArrayList by using iterators and loops including the enhanced for loop		X			
	Compare an array and an ArrayList		X			
Classes and Constructor						
	Create a new class including a main method	X				
	Use the private modifier	X				
	Describe the relationship between an object and its members		x			
	Describe the difference between a class variable, an instance variable, and a local variable		x			
	Develop code that creates an object's default constructor and modifies the object's fields		x			
	Use constructors with and without parameters		x			
	Develop code that overloads constructors		x			
Java Methods						
	Describe and create a method		x			
	Create and use accessor and mutator methods		x			
	Create overloaded methods		x			
	Describe a static method and demonstrate its use within a program		x			

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