



### Core Java package Summary:

Topics : 120  
Duration : 80 hours  
Programs explained : 1500  
Questions asked : 2000

### Core Java package details:

<b>Topic Name</b>	<b>Duration</b>	<b>Programs explained</b>	<b>Questions in the test paper</b>
<b><i>JDK Setup</i></b>	35 min	0	12
<b><i>First Program</i></b>	12 min	1	8
<b><i>Development structure</i></b>	32 min	7	6
<b><i>Programming elements</i></b>	61 min	0	20
<b><i>Printing in Command prompt</i></b>	27 min	7	6
<b><i>Local variables</i></b>	86 min	31	11
<b><i>Unary Operators</i></b>	60 min	20	26
<b><i>Command line arguments</i></b>	51 min	8	6
<b><i>if block</i></b>	45 min	33	33
<b><i>nested if blocks</i></b>	47 min	33	32
<b><i>if blocks with unary operators</i></b>	29 min	15	15
<b><i>else block</i></b>	38 min	17	17

<b><i>if-else blocks inside if block</i></b>	59 min	26	26
<b><i>if-else blocks inside else block</i></b>	51 min	26	26
<b><i>if-else blocks with unary operators</i></b>	13 min	8	9
<b><i>ternary operator</i></b>	25 min	10	9
<b><i>switch-cases</i></b>	72 min	26	25
<b><i>for-loop</i></b>	81 min	34	31
<b><i>break and continue</i></b>	17 min	8	8
<b><i>nesting of loops</i></b>	11 min	4	4
<b><i>labeled loops</i></b>	7 min	14	3
<b><i>for-each loop</i></b>	13 min	19	4
<b><i>while loop</i></b>	37 min	18	18
<b><i>do-while</i></b>	12 min	22	4
<b><i>Methods</i></b>	160mins	77	78
<b><i>attributes</i></b>	53mins	22	12
<b><i>SIB</i></b>	45mins	13	13
<b><i>IFR and Multiple classes</i></b>	90mins	15	15
<b><i>Object and reference variable</i></b>	54mins	15	24
<b><i>this key word</i></b>	46 mins	5	16
<b><i>constructors</i></b>	44 mins	15	0
<b><i>constructor overloading and this()</i></b>	44 mins	13	23
<b><i>IIB</i></b>	14 mins	6	0
<b><i>objects count</i></b>	26 mins	6	9
<b><i>Encapsulation</i></b>	20 mins	0	5
<b><i>Inheritance</i></b>	37 mins	16	30
<b><i>super() calling statement</i></b>	90 mins	15	3
<b><i>packages</i></b>	25 mins	5	12
<b><i>access levels</i></b>	77 mins	5	88
<b><i>abstrcat classes</i></b>	45 min	20	18
<b><i>interfaces</i></b>	54 min	24	26
<b><i>method overloading</i></b>	22 min	12	18
<b><i>method overriding</i></b>	32 min	11	12
<b><i>auto widening</i></b>	23 min	7	10

<b>explicit narrowing</b>	22 min	6	15
<b>auto upcasting</b>	26 mins	17	8
<b>explicit down casting</b>	36 mins	26	31
<b>achieving polymorphism</b>	28 mins	4	9
<b>final key word</b>	29 mins	38	51
<b>classpath</b>	66 mins	4	24
<b>Javadoc, javap and jar commands</b>	48 mins	1	4
<b>Scanner class</b>	14 mins	7	8
<b>Eclipse</b>	16 mins	5	0
<b>basics</b>	36 mins	12	28
<b>auto boxing and auto unboxing</b>	24	28	31
<b>why do we require Exception Handling</b>	43 min	12	19
<b>try-catch</b>	27 min	15	6
<b>try-catches</b>	31 min	5	22
<b>try-catch-finally</b>	17 min	7	18
<b>exceptional conditions of finally</b>	7 min	2	9
<b>return statement</b>	27 min	4	4
<b>Errors and Exceptions</b>	22 min	4	25
<b>Checked and Unchecked</b>	22 min	7	9
<b>throws</b>	44 min	19	23
<b>throw</b>	20 min	7	16
<b>assertions</b>	43 min	15	27
<b>toString</b>	47 mins	6	9
<b>equals</b>	63 mins	15	22
<b>hashCode</b>	45 mins	10	8
<b>Garbage Collection and clone</b>	115 mins	8	15
<b>reflection api</b>	38 mins	4	6
<b>basics</b>	47 mins	18	12
<b>advanced</b>	31 mins	10	9
<b>annotations</b>	56 mins	19	10
<b>static imports</b>	27 mins	11	0

<b><i>why do we required an inner classes</i></b>	25 mins	4	0
<b><i>non static, static and local inner classes</i></b>	25 mins	16	0
<b><i>anonymous inner class</i></b>	36 mins	23	0
<b><i>lambda expressions</i></b>	29 mins	14	0
<b><i>basics</i></b>	160 mins	31	114
<b><i>synchronization</i></b>	250 mins	6	50
<b><i>thread life cycle</i></b>	23 mins	6	14
<b><i>accessories</i></b>	40 mins	4	8
<b><i>basics and important methods</i></b>	160 mins	85	25
<b><i>StringBuffer</i></b>	26 mins	10	0
<b><i>Formatters</i></b>	15 mins	19	16
<b><i>Regular expressions</i></b>	36 mins	8	27
<b><i>DateFormatters and NumberFormatters</i></b>	20 mins	14	15
<b><i>arrays</i></b>	35 mins	29	0
<b><i>introduction</i></b>	17 mins	0	6
<b><i>basic operations</i></b>	71 mins	25	30
<b><i>different collections</i></b>	15 mins	0	15
<b><i>list</i></b>	17 mins	0	27
<b><i>queues</i></b>	20 mins	11	27
<b><i>avoiding duplicates (set)</i></b>	83 mins	13	27
<b><i>maps</i></b>	55 mins	15	44
<b><i>iterators</i></b>	45 min	22	69
<b><i>sorting</i></b>	80 mins	11	35
<b><i>TreeSet and TreeMap</i></b>	10min		6
<b><i>sorting map based on values</i></b>	55 min	1	17
<b><i>modifying collections classes as synchronized</i></b>	53 mins	9	13
<b><i>concurrent package</i></b>	Yet to upload		0
<b><i>accessories</i></b>	Yet to upload		0

<b><i>basics</i></b>	21 mins	16	23
<b><i>advanced</i></b>	87 mins	59	54
<b><i>basics</i></b>	75 mins	23	37
<b><i>readers and writers</i></b>	33 mins	10	9
<b><i>streams</i></b>	5 mins	1	9
<b><i>serialization</i></b>	9 mins	3	5
<b><i>adv serialization and externalization</i></b>	21 mins	6	0
<b><i>PrintStream</i></b>	13 mins	13	0
<b><i>forEach() method in Iterable interface.</i></b>	17 mins	4	0
<b><i>default and static methods in Interfaces.</i></b>	38 mins	5	0
<b><i>Functional Interfaces and Lambda Expressions.</i></b>	29 mins	14	0
<b><i>Java Stream API for Bulk Data Operations on Collections.</i></b>	Yet to upload		
<b><i>Java Time API.</i></b>	Yet to upload		
<b><i>Collection API improvements.</i></b>	Yet to upload		
<b><i>Concurrency API improvements.</i></b>	Yet to upload		
<b><i>Java IO improvements.</i></b>	Yet to upload		