

Student Result

Student Name: Kalyani Dinkar Rahurkar

Exam: JAVA_Placement

Score: 16.0/50.0

Percentage: 32.00%

Question-wise Summary

| Sr.no | Question | Selected Answer | Correct Answer |
|-------|--|-----------------|----------------|
| 1 | Find the output of the given while loop. | 8 | 6 |
| 2 | How many times does the print statement execute in this nested loop? | 3 | 3 |
| 3 | Calculate the final output of the code snippet. | 25 | 15 |
| 4 | What will be the output after values are swapped? | 20 10 | 20 10 |

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|---|---|---------------|----------|
| 5 | <p>Predict the output for this Fibonacci-like loop.</p> | 5 | 8 |
| 6 | <p>Find the count of numbers divisible by 3 or 5 between 1 to 10.</p> | 5 | 5 |
| 7 | <p>What is the final sum of the squares loop?</p> | 55 | 55 |
| 8 | <p>Determine the output of this nested if-else block.</p> | A | B |
| 9 | <p>What is the output when the loop encounters a break statement?</p> | Infinite loop | 2000 1 2 |

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| 10 | Find the total iterations of the nested loop (x value). | 8 | 10 |
| 11 | Time complexity of a single loop? | O(log n) | O(n) |
| 12 | Nested loop complexity? | O(n ²) | O(n ²) |
| 13 | Binary search complexity? | O(n ²) | O(log n) |
| 14 | Best case HashMap get() complexity? | O(1) | O(1) |
| 15 | Which of the following is the fastest complexity? | O(n log n) | O(log n) |
| 16 | Root class of all exceptions in Java? | RuntimeException | Throwable |

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|----|--|---------------------|-----------------------------|
| 17 | Which of these is an Unchecked exception? | SQLException | NullPointerException |
| 18 | What is the purpose of the finally block? | Cleanup | Cleanup |
| 19 | Is a try block without a catch possible? | No | Yes with finally |
| 20 | Keyword used to explicitly throw an exception? | throws | throw |
| 21 | Which collection allows duplicate elements? | Set | List |
| 22 | Which Set maintains insertion order? | HashSet | LinkedHashSet |

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| 23 | How many null keys are allowed in a HashMap? | Many | 1 |
| 24 | Which of these is a synchronized collection? | HashSet | Vector |
| 25 | Root interface of the Collection Framework? | Iterable | Collection |
| 26 | Method overriding is an example of? | Polymorphism | Polymorphism |
| 27 | Keyword used to prevent inheritance? | final | final |
| 28 | Data hiding is primarily achieved by? | Encapsulation | Encapsulation |
| 29 | Can an abstract class have a constructor? | Yes | Yes |

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|----|---|------------|------------|
| 30 | Multiple inheritance in Java is achieved using? | Interfaces | Interfaces |
| 31 | Stream API was introduced in which Java version? | Java 8 | Java 8 |
| 32 | Which of these is a Terminal operation in Streams? | filter | collect |
| 33 | Stream operations are generally? | Immediate | Lazy |
| 34 | Method used to transform/map elements in a Stream? | filter | map |
| 35 | What does the <code>findFirst()</code> method return? | Stream | Optional |

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|----|---|---------------|-------------|
| 36 | In which package is the Comparable interface found? | java.io | java.lang |
| 37 | Comparator is primarily used for? | Serialization | Custom sort |
| 38 | Which method is defined in the Comparable interface? | equals | compareTo |
| 39 | What provides platform independence in Java? | Bytecode | Bytecode |
| 40 | Which code calculates the total salary of active employees? | Option C | Option B |
| 41 | What is the main purpose of hashing? | Sorting | Fast lookup |

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|----|---|-----------------|-----------------|
| 42 | Which method is used for hashing in Java? | hashCode | hashCode |
| 43 | What will be the size of the HashSet in the given code? | 3 | 1 |
| 44 | Time complexity of the given nested loop ($j = j * 2$)? | $O(\log n)$ | $O(n \log n)$ |
| 45 | What is the time complexity? | $O(n)$ | $O(n^2)$ |
| 46 | What is the time complexity? | $O(n^2 \log n)$ | $O(n^2 \log n)$ |
| 47 | What is the time complexity? | $O(\log n)$ | $O(n \log n)$ |
| 48 | What is the time complexity? | $O(n)$ | $O(n^2)$ |

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|----|--|----------------------|------------------------------------|
| 49 | <pre>Thread t = new Thread() -> System.out.println("Run"); t.run();</pre> | JVM error | Runs in main thread |
| 50 | <p>What is the result of class C implementing interfaces A and B?</p> | B | Compilation error |