

## Student Result

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**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 | Predict the output for this Fibonacci-like loop.               | 5             | 8        |
| 6 | Find the count of numbers divisible by 3 or 5 between 1 to 10. | 5             | 5        |
| 7 | What is the final sum of the squares loop?                     | 55            | 55       |
| 8 | Determine the output of this nested if-else block.             | A             | B        |
| 9 | What is the output when the loop encounters a break statement? | 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?      | <b>SQLException</b> | <b>NullPointerException</b> |
| 18 | What is the purpose of the finally block?      | <b>Cleanup</b>      | <b>Cleanup</b>              |
| 19 | Is a try block without a catch possible?       | <b>No</b>           | <b>Yes with finally</b>     |
| 20 | Keyword used to explicitly throw an exception? | <b>throws</b>       | <b>throw</b>                |
| 21 | Which collection allows duplicate elements?    | <b>Set</b>          | <b>List</b>                 |
| 22 | Which Set maintains insertion order?           | <b>HashSet</b>      | <b>LinkedHashSet</b>        |

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

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

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

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