

Name Class Date **Day 1 Quiz**

Total questions: 30

Worksheet time: 11mins

Instructor name: Prof. Harish T. Gwalani

1. What is the role of JVM in Java?
 - a) Compile the code
 - b) Interpret bytecode and execute
 - c) Translate Java to C++
 - d) Edit source code
2. What does JRE consist of?
 - a) IDE and debugger
 - b) JVM and libraries
 - c) Compiler and debugger
 - d) JVM and source code
3. What is the output of compiling a `.java` file?
 - a) .exe file
 - b) .jar file
 - c) .java file
 - d) .class file
4. Which component runs the `.class` file?
 - a) JRE
 - b) JVM
 - c) JIT
 - d) JDK
5. Which Java component includes development tools?
 - a) JavaBeans
 - b) JVM
 - c) JRE
 - d) JDK
6. Which part of Java ensures platform independence?
 - a) JDK
 - b) JRE
 - c) JVM
 - d) API
7. What will happen if there is no `main` method in a class?
 - a) Program will run without output
 - b) Infinite loop
 - c) Compilation error
 - d) Runtime error

8. Which tool is used to compile Java programs?
- a) java
 - b) javac
 - c) jdb
 - d) javadoc
9. Which data type is used for true/false values?
- a) float
 - b) boolean
 - c) int
 - d) char
10. What is the size of a `char` in Java?
- a) 4 bytes
 - b) 8 bytes
 - c) 2 bytes
 - d) 1 byte
11. Which of these is an implicit type conversion?
- a) long to short
 - b) int to float
 - c) float to int
 - d) double to int
12. Which statement is true for type casting in Java?
- a) Larger to smaller type can be automatic
 - b) Smaller to larger needs casting
 - c) Explicit casting is required for narrowing
 - d) No casting needed for any conversion
13. What is the default value of a boolean?
- a) null
 - b) 0
 - c) false
 - d) true
14. What is the result of this code? `int x = (int)3.9;`
- a) 3
 - b) 4
 - c) 3.9
 - d) Compilation error
15. What is the output of `7 ^ 2 & 5`?
- a) 7
 - b) 6
 - c) 5
 - d) 1
16. Which operator has the highest precedence?
- a) `&&`
 - b) `*`
 - c) `++`
 - d) `+`

17. What is the output of ``5 >> 1``?
- a) 3
 - b) 5
 - c) 10
 - d) 2
18. What is the result of ``4 | 5``?
- a) 6
 - b) 5
 - c) 4
 - d) 1
19. Which package is required for Scanner?
- a) java.net
 - b) java.lang
 - c) java.io
 - d) java.util
20. What is the method to read a line using BufferedReader?
- a) `readLine();`
 - b) `nextLine();`
 - c) `getLine();`
 - d) `read();`
21. What is the correct way to create a Scanner object?
- a) `Scanner sc = new Scanner();`
 - b) `new Scanner sc();`
 - c) `Scanner sc = Scanner();`
 - d) `Scanner sc = new Scanner(System.in);`
22. How to convert a String to int from BufferedReader input?
- a) `Integer.parseInt()`
 - b) `toInt()`
 - c) `parseInt()`
 - d) `valueOf()`
23. Which class offers better performance in reading large input?
- a) Console
 - b) Scanner
 - c) BufferedReader
 - d) InputStreamReader
24. Which keyword is used to exit a loop prematurely?
- a) stop
 - b) return
 - c) break
 - d) exit
25. What is the default case in switch used for?
- a) For numbers
 - b) Always executes
 - c) For null
 - d) For unmatched cases

26. Which keyword is used to skip current iteration of loop?
- a) skip
 - b) break
 - c) pass
 - d) continue
27. Which loop checks condition after executing body?
- a) while
 - b) do-while
 - c) for
 - d) if
28. Which of the following statements is correct regarding the platform dependence of Java components?
- a) Java is platform independent, but the JVM is platform dependent.
 - b) Both Java and JVM are platform independent.
 - c) Java is platform dependent because the JVM is platform independent.
 - d) Java is platform dependent because the JVM is platform independent.
29. Which method is inherited from the Object class?
- a) toString()
 - b) main()
 - c) print()
 - d) run()
30. What is the default base class for all Java classes?
- a) Class
 - b) Parent
 - c) Main
 - d) Object

Answer Keys

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|---|-------------------------|---|
| 1. b) Interpret bytecode and execute | 2. b) JVM and libraries | 3. d) .class file |
| 4. b) JVM | 5. d) JDK | 6. c) JVM |
| 7. d) Runtime error | 8. b) javac | 9. b) boolean |
| 10. c) 2 bytes | 11. b) int to float | 12. c) Explicit casting is required for narrowing |
| 13. c) false | 14. a) 3 | 15. a) 7 |
| 16. c) ++ | 17. d) 2 | 18. b) 5 |
| 19. d) java.util | 20. a) readLine(); | 21. d) Scanner sc = new Scanner(System.in); |
| 22. a) Integer.parseInt() | 23. c) BufferedReader | 24. c) break |
| 25. d) For unmatched cases | 26. d) continue | 27. b) do-while |
| 28. a) Java is platform independent, but the JVM is platform dependent. | 29. a) toString() | 30. d) Object |

