

Multiple Choice Quiz: IO and Java

1. What is an I/O stream in Java?

- A) A loop structure
- B) A sequence of data for input/output
- C) A data type
- D) A class method

2. Which package provides Java I/O classes?

- A) java.util
- B) java.io
- C) java.net
- D) java.lang

3. What type of data does `InputStream` handle?

- A) Characters
- B) Bytes
- C) Objects
- D) Strings

4. Which class is used to read bytes from a file?

- A) `FileReader`
- B) `FileInputStream`
- C) `BufferedWriter`
- D) `OutputStream`

5. What method reads a single byte from an `InputStream`?

- A) `write()`
- B) `read()`
- C) `close()`
- D) `flush()`

6. Which class writes bytes to a file?

- A) `FileWriter`
- B) `FileOutputStream`
- C) `BufferedReader`
- D) `InputStream`

7. Why should you close a stream in Java?

- A) To increase performance
- B) To free system resources
- C) To read data
- D) To compile the program

8. What exception is commonly handled in I/O operations?

- A) `NullPointerException`

- B) IOException
- C) ArrayIndexOutOfBoundsException
- D) ClassNotFoundException

9. Which feature auto-closes streams in Java 7+?

- A) try-catch
- B) try-with-resources
- C) finally
- D) close()

10. What is the benefit of using buffers in file operations?

- A) Increases file size
- B) Improves performance
- C) Changes encoding
- D) Prevents errors

11. Which class is used to read character data from a file?

- A) FileInputStream
- B) FileReader
- C) OutputStream
- D) BufferedWriter

12. Which class provides efficient text reading with buffering?

- A) FileWriter
- B) BufferedReader
- C) InputStreamReader
- D) FileOutputStream

13. What does `BufferedReader.readLine()` do?

- A) Reads a single character
- B) Reads a line of text
- C) Writes a line
- D) Closes the stream

14. Which class writes character data to a file?

- A) FileOutputStream
- B) FileWriter
- C) BufferedReader
- D) InputStream

15. What is true about character streams?

- A) They handle binary data
- B) They process Unicode text
- C) They are slower than byte streams
- D) They cannot use buffers

16. Which class bridges byte streams to character streams?

- A) FileReader

- B) InputStreamReader
- C) FileOutputStream
- D) BufferedWriter

17. What encoding is commonly used with character streams?

- A) Binary
- B) UTF-8
- C) ASCII-128
- D) Bytecode

18. What does the write() method of FileOutputStream do?

- A) Reads bytes
- B) Writes bytes
- C) Closes the stream
- D) Buffers data

19. What is the output of this code if "test.txt" contains "Hello"? `FileReader fr = new
FileReader("test.txt"); int ch = fr.read(); System.out.print((char) ch);`

- A) Hello
- B) H
- C) Error
- D) Nothing

20. Which class is used to write text efficiently with buffering?

- A) FileReader
- B) FileOutputStream
- C) BufferedWriter
- D) InputStreamReader

21. What does `BufferedWriter.newLine()` do?

- A) Reads a line
- B) Writes a newline character
- C) Closes the stream
- D) Clears the buffer

22. Why are character streams preferred for text files?

- A) They are faster than byte streams
- B) They handle text encoding automatically
- C) They support binary data
- D) They require no buffering