Java `printf`, `print`, and `println` - Hard MCQ Questions

Multiple Choice Questions

Q1. What is the output of the following code? `System.out.printf("%d", 12.8);`

    (A) `12`

    (B) `12.8`

    (C) Compile-time error

    (D) Runtime error

Q2. Which statement about `System.out.println` is correct?

    (A) It adds a newline after printing.

    (B) It never adds a newline.

    (C) It always formats text according to locale.

    (D) It can only print strings.

Q3. What will the following print? `System.out.printf("%5d", 42);`

    (A) `42`

    (B)   `42` (3 spaces before 42)

    (C) `42`

    (D) Compile error

Q4. Which is the correct syntax to print a floating point number with exactly 2 decimal places using `printf`?

    (A) `System.out.printf("%.2f", value);`

    (B) `System.out.printf("%2f", value);`

    (C) `System.out.printf("2f%", value);`

    (D) `System.out.printf("%f.2", value);`

Q5. Which will cause a runtime exception?

    (A) `System.out.printf("%d", 10);`

    (B) `System.out.printf("%f", 3.14);`

    (C) `System.out.printf("%d", 3.14);`

(D) `System.out.printf("Hello");`

Q6. What will be printed? `System.out.print("Hello"); System.out.println("World");`

    (A) `HelloWorld` (no newline)

    (B) `HelloWorld` (newline after)

    (C) `Hello World`

    (D) Compile error

Q7. Which method allows formatting with locale-specific settings?

    (A) `print`

    (B) `println`

    (C) `printf`

    (D) None

Q8. What will be the output? `System.out.printf("%-5dX", 7);`

    (A)   `7X`

    (B) `7    X`

    (C) `7X`

    (D) Compile error

Q9. Which is true for `printf` in Java?

    (A) It returns a `String`.

    (B) It returns a `PrintStream`.

    (C) It returns `void`.

    (D) It returns an `int`.

Q10. Output? `System.out.printf("PI: %.0f", Math.PI);`

    (A) `PI: 3.14`

    (B) `PI: 3`

    (C) `PI: 4`

    (D) Compile error

Q11. Output? `System.out.printf("%04d", 23);`

    (A) `23`

    (B) `0023`

    (C) `2300`

    (D) Compile error

Q12. Which will print a tab between two words?

    (A) `"Hello/tWorld"`

(B) `"Hello\tWorld"`

(C) `"Hello/t World"`

(D) `"Hello\t World"`

Q13. What happens if more arguments are passed than format specifiers in `printf`?

    (A) Compile-time error

    (B) Runtime error

    (C) Extra arguments are ignored

    (D) Causes an infinite loop

Q14. Output? `System.out.printf("%s", 123);`

    (A) `123`

    (B) Compile error

    (C) Runtime error

    (D) `%s`

Q15. In `printf`, what does `%-10s` do?

    (A) Right-align string in a field of width 10

    (B) Left-align string in a field of width 10

    (C) Print first 10 characters

    (D) Throws exception

Q16. Output? `System.out.printf("%.3f", 2.71828);`

    (A) `2.718`

    (B) `2.71`

    (C) `2.7183`

    (D) Compile error

Q17. What will `System.out.println()` print if called without arguments?

    (A) Nothing

    (B) Newline

    (C) Compile error

    (D) Null

Q18. Which placeholder prints a boolean in `printf`?

    (A) `%b`

    (B) `%B`

    (C) Both A and B

    (D) None

Q19. Output? `System.out.printf("%c", 65);`

    (A) `A`

    (B) `65`

    (C) Runtime error

    (D) Compile error

Q20. Which correctly prints a percentage sign using `printf`?

    (A) `"%"`

    (B) `"%%"`

    (C) `"\%"`

    (D) `"%%%"`

Q21. Output? `System.out.printf("%1$d %1$x", 255);`

    (A) `255 255`

    (B) `255 ff`

    (C) `ff 255`

    (D) Compile error

Q22. Which method call is valid?

    (A) `System.out.printf("%s", "Hi");`

    (B) `System.out.printf("%d", "Hi");`

    (C) `System.out.println("%d", 5);`

    (D) `System.out.print("%d", 5);`

Q23. Output? `System.out.printf("%e", 123.456);`

    (A) Scientific notation

    (B) 123.456

    (C) Runtime error

    (D) Compile error

Q24. What does `%n` do in `printf`?

    (A) Prints nothing

    (B) Prints a newline (platform-independent)

    (C) Prints "n"

    (D) Prints space

Q25. Output? `System.out.printf("| %10.2f |", 123.456);`

    (A) `|    123.46 |`

    (B) `|123.46 |`

(C) | 123.456 |

(D) Compile error

Q26. Which is true about `print`?

    (A) Adds newline automatically

    (B) Does not add newline

    (C) Always flushes buffer

    (D) Only prints numbers

Q27. Output? `System.out.printf("%+d", 50);`

    (A) 50

    (B) +50

    (C) Compile error

    (D) Runtime error

Q28. Output? `System.out.printf("%010d", -123);`

    (A) -000000123

    (B) 000000-123

    (C) 0000000123

    (D) Compile error

Q29. Which prints a literal backslash?

    (A) `"\\"`

    (B) `"\"`

    (C) `"%\"`

    (D) `"//"`

Q30. Output? `System.out.printf("%2$d %1$d", 11, 22);`

    (A) 11 22

    (B) 22 11

    (C) 11 11

    (D) Compile error

Answers

Q1: C

Q2: A

Q3: B

Q4: A

Q5: C

Q6: B

Q7: C

Q8: B

Q9: B

Q10: B

Q11: B

Q12: B

Q13: C

Q14: A

Q15: B

Q16: C

Q17: B

Q18: C

Q19: A

Q20: B

Q21: B

Q22: A

Q23: A

Q24: B

Q25: A

Q26: B

Q27: B

Q28: A

Q29: A

Q30: B