

1. What is the output of the following code snippet?

```
int a = 5;  
int b = 3;  
int c = a-- + ++b * 2 - 7;  
System.out.println(c);
```

- ☐ 4
- ☐ 5
- ☒ 6
- ☐ 7

2. What will be the value of x after the following code snippet?

```
int x = 12;  
x %= 5;
```

- ☐ 3
- ☒ 2
- ☐ 5
- ☐ 7

3. Which of the following operators is used to perform bitwise AND in Java?

- ☒ &
- ☐ &&
- ☐ |
- ☐ ^

4.

What is the result of the expression

```
int a = 10;  
int b = a;  
a += 5;
```

- ☒ b is assigned the value 10
- ☐ b is assigned the value 15
- ☐ b is assigned the value 5
- ☐ An error occurs due to incorrect syntax

5. which of the following is not be used as variable name or class name in java

- ☐ identifiers

☒ keywords

☐ literal

☐ operators

6. What is the syntax of a ternary operator in Java

☐ expression ? value1 : value2

☒ condition ? true-value : false-value

☐ if (condition) ? value1 : value2

☐ value1 ? value2 : expression

7. What does %n do in a format string?

☐ Prints the current line number

☒ Inserts a new line character.

☐ Prints a percent sign.

☐ Prints a tab character.

8. What does the format specifier %2s do when used with printf() ?

☐ Prints the value as a floating-point number with 2 decimal places.

☒ Prints the value as a string, taking up at least 2 characters of space.

☐ Prints the value as an integer with at least 2 digits.

☐ Prints the value with 2 leading spaces.

9. Which symbol is used to indicate a format specifier in a format string?

☒ %

☐ \$

☐ &

☐ #

10. what will be the output of the following snippet

```
public class Main {  
    public static void main(String[] args) {  
        int x = 5;  
        System.out.println(x > 2 ? (x < 4 ? 10 : 8) : 7);  
    }  
}
```

☒ 8

☐ 7

☐ 10

☐ compilation error

11. Which of these have highest precedence?

- ☐ 0
- ☒ ++
- ☐ *
- ☐ >>

12. Given an arithmetic expression

$(a + b - c) * (e / f) - (g - h / i),$

what is the equivalent post order notation for the expression?

- ☐ *-+abc/ef-g/hi
- ☐ ab+c-ef/*ghi/--
- ☒ *ab-+c/ef-g/hi
- ☐ ab+c-ef/*g-h/i-

13. Which of these can be returned by the operator &?

- ☐ Integer
- ☐ Character
- ☐ Boolean
- ☒ Integer or Boolean

14. .What will be the output of the below code?

```
public static void main(String args[]) {  
    int age;  
    System.out.println(age);  
}
```

- ☐ 0
- ☐ garbage value
- ☒ compilation error : variable needs to be initialized before use
- ☐ 214748364

15. Which of the following is not a primitive data type in Java?

- ☐ int
- ☐ float
- ☐ boolean
- ☒ String

16. Which of the following data types is used to store a single-precision floating-point number in Java?

- ☒ float
- ☐ double

☐ decimal

☐ real

17. Which data type should be used to store whole numbers that can range from -2^{31} to $2^{31}-1$?

☐ byte

☒ int

☐ long

☐ short

18. Which of the following is the correct way to declare a variable in Java?

☐ var x;

☐ variable x;

☒ int x;

☐ x=int;

19. What will be the output of the below program?

```
public class Demo {  
    public static void main(String[] args) {  
        int k = 2;  
        switch (k) {  
            case 'a':  
                System.out.println("Welcome");  
            case 2:  
                System.out.println("To");  
            case 'b':  
                System.out.println("Infosys");  
                break;  
            default:  
                System.out.println("Hello");  
        }  
    }  
}
```

☐ Welcome To Infosys Hello

☒ To Infosys

☐ To

☐ Hello

20. What is the purpose of the `default` case in a `switch` statement?

☒ To handle the default condition when no other cases match

☐ To define a condition that is always true

☐ To indicate the end of the switch statement

☐ To handle exceptions

21. How can you handle multiple conditions efficiently in Java?

- ☐ Using the `if-else` statement
- ☐ Using only the `if` statement
- ☒ Using the `switch` statement
- ☐ Using only the ternary operator (`? :`).

22. Which of the following is not a conditional statement in Java?

- ☐ `if`
- ☒ `when`
- ☐ `switch`
- ☐ `else`

23. What will be the output of the below code?

```
public static void main(String args[]) {  
    int i = 10;  
    if(i) {  
        System.out.println("Hello");  
    }  
    else {  
        System.out.println("Bye");  
    }  
}
```

- ☐ Hello
- ☐ runtime error
- ☐ Bye
- ☒ compilation error: cannot convert from int to boolean

24. What will be the output of the below program?

```
public class Demo {  
    public static void main(String[] args) {  
        int num1 = 25;  
        int num2 = 34;  
        if (num1 / 3 >= num2 / 4) {  
            num1 = num1 + 1;  
        } else {  
            num2 = num2 + 1;  
        }  
        System.out.println(num1 + "," + num2);  
    }  
}
```

- ☐ 25,35
- ☐ 25,34

☒ 26,34

☐ 26,36

25. Choose the correct option based on the code snippet given below.

```
public class Demo {  
    public static void main(String[] args) {  
        float f = 12;  
        switch (f) { // Line 1  
            case 10 + 1: // Line 2  
                System.out.println("Twelve");  
            case 0: // Line 3  
                System.out.println("Zero");  
            case (int) 12.0:  
                System.out.println("Decimal");  
            default:  
                System.out.println("Default");  
        }  
    }  
}
```

- ☐ Compiles successfully without any error
- ☐ Compilation error in Line 3 "Cannot use 0 in case"
- ☐ Compilation error in Line 2 "Cannot use operator in case"
- ☒ Compilation error in Line 1 "Cannot use float type in switch"