## Day 2 ASSESSMENT

1. Which of the following is a comparison operator in Java?

]. +=

2.==

3. &&

4.%

2. What is the result of 5 + 3 \* 2 > 10 && !(7 == 7)?

1. true

2 false

3. Erro

4. Cannot be evaluated

3. Which operator is used to check if two values are not equal in Java?

1.!==

Z.!=

3. <

4.==

4. What will true || false && false evaluate to?

1. true

2 false

3. null

4. Erroi

5. Which of the following expressions is logically incorrect?

1.x = 10

2.x = 5 in an if condition

3. x != y

4.!(x > y)

6. In Java, what is the result of the expression!(false||true)?

1. true

2 false

3. Error

4.0

7. What is the precedence order among these: &&, ==, +?

Name: .....

8. What's wrong here?

$$if(x = 10)$$
{

System.out.println("Ten");

}

1. Missing semicolon

2.-should be ==

3. No braces used

4. x should be declared

9. Which of these evaluates to true only if both expressions are true?

1. ||

2.==

3 &&

4.!

10. Guess the Output:

int a = 10, b = 20;

System.out.println( $a \ge 5 \&\& b < 15$ );

1. true

2. false

3. Error

4 null

11. What is the output of the following code?

int num = 0;

if(num > 0) System.out.println

("Positive"); else if(num < 0)

System.out.println("Negative");

else System.out.println("Zero");

1. Positive

2. Negative

3. Zero

4. Error

12. In which situation would you prefer ifelse over switch?

1. When comparing a variable against constant values

...When performing range-based conditions

3. When matching string literals

4. When dealing with enums

13. What is the syntax for the ternary operator in Java?

1. condition: true? false

2 ndition? valueIfTrue:

valuelfFalse

3. if?then:else

4. if (condition) {value1} else {value2}

14. Guess the Output:

intage = 17;

System.out.println(age >= 18 ?

"Eligible": "Not Eligible");

1. Eligible

2 Not Eligible

3. Error

4. null

15. Which of the following represents a nested if structure correctly?

i.if(a) else if(b)

2. if(a) { if(b) { } }

3. if(a) && if(b)

4. if(a) then if(b)

16. Debug the Code:

int x = -10;

if(x > 0)

System.out.println("Positive")

else

System.out.println("Negative");

1. Missing braces

2. Missing semicolon after println()

3. Wrong comparison

4. None

17. Which control structure is used when you have 3 or more mutually exclusive conditions?

7. Nested if

2. if-else if-else

3. Ternary

4. switch

18. What will the following code print? int a = 10, b = 5;

if(a > b)

if(a > 100)

System.out.println("Big");

else

System.out.println("Small");

1. Big

2.Small

3. Error

4. Nothing

19. What is the primary limitation of the switch statement in Java?

1. Cannot compare integers

2.Cannot evaluate logical expressions or ranges

3 Requires semicolons after each case

4. Cannot use strings

20. Guess the Output:

int day = 3;

switch(day){

case 1: System.out.println("Monday"); break;

case 2: System.out.println("Tuesday"); break;

case 3: System.out.println("Wednesday"); break; default: System.out.println("Invalid"); }

1. Monday

2. Tuesday

3. Wednesday

4. Invalid

21. Which case will execute if no case matches in a switch block and no default is defined?

1. First case

2. Last case

3. No case

4. All cases

- 22. Which of the following statements is true about break in switch?
  - . Optional, but prevents fall-through
    - 2. Mandatory after every case
    - 3. Must be the last line of switch
    - 4. Required only in default
- 23. Debug the Code:

int choice = 2; switch(choice){

case 1: System.out.println("Option 1");
case 2: System.out.println("Option 2");
default: System.out.println("Default");}

- 1. Option 2
- 2. Option 2, Default
- 3. Option 1, Option 2, Default
- 4. Error
- 24. Which of these is the correct usage of switch?
  - 1. switch (x > 5)
  - 2. switch ("Hello")
  - 3. switch (x && y)
- 25. Which one is NOT suitable to be implemented using switch-case in Java?
  - 1. Checking age ranges
  - 2. Menu options (1, 2, 3...)
  - 3. Weekday mapping (1–7)
  - 4 Mapping grades A, B, C
- 26. A jacket originally priced at ₹2,000 is available at a 15% discount. What is the discounted price?
  - **.**₹1,700
    - 2.₹1,800
    - 3.₹1,750
    - 4.₹1,600

- 27. A trader gains 20% on selling an item for ₹720. What was the cost price?
  - 1.₹600
  - 2.₹580
  - 3.₹620
  - 4.₹700
- 28. A student scored 144 out of 160 in an exam. What percentage did she score?
  - 1.85%
  - 2.88%
  - 3.90%
  - 4.92%
- 29. A product costs ₹500. It is first marked up by 25%, then a discount of 10% is given. What is the final selling price?
  - 1.₹562.50
  - 2.₹550
  - 3.₹575
  - 4.₹600
- 30. If the price of an item is increased by 20%, by what percent must the consumption be reduced to keep the total expenditure same?
  - 1. 16.67%
  - **2**. 20%
  - 3. 18%
  - 3. 25%