

**Objective Type Questions****1 Which of the following segment can be omitted in a for loop initialization?**

- a. test condition
- b. update expression
- c. All of these

**2 Which of the following loop executes at least once?**

- a. while
- b. for
- c. do-while
- d. None of these

**3 Which of the following is an exit-controlled loop?**

- a. while
- b. do-while
- c. for
- d. None of these

**4 Which of the following is an invalid loop?**

- a. repeat
- b. for
- c. do-while
- d. while

**5 Which of the following statement causes complete termination of the loop?**

- a. continue
- b. jump
- c. break
- d. terminate

**6 Which of the following is an empty loop?**

- a. for(*i* = 0; *i* < 5; *i*++);
- b. while (*i* < 5) *i*++;
- c. do {*i*++;} while (*i* < 5);
- d. All of these

**7 Which of the following is not a jump statement in Java?**

- a. break
- b. jump
- c. return
- d. continue

**8 How many times will the following code print "Java"?**for (*int i* = 1; *i* <= 5; *i* ++);{  
    System.out.println("Java");  
}

- a. 0
- b. 1
- c. 5
- d. 4

**9 What will be the output of the following code?****public static void main(String args[])**{  
    int sum = 0;  
    for (int i = 1; i <= 5; i++)  
    {  
        sum = i;  
    }  
    System.out.println(sum);  
}

- a. 15
- b. 21
- c. 5
- d. 0

**10 How many times will the following loop execute?****public static void main(String args[])**{  
    int sum = 0;  
    for (int i = 10; i > 5; i++)  
    {  
        sum += i;  
    }  
    System.out.println(sum);  
}

- a. 5
- b. 0
- c. 15
- d. Infinite loop

**11** Which of the following for loops will cause the body of the loop to be executed 10 times?

- a. for (int i = 0; i <= 10; i++)
- b. for (int i = 1; i < 10; i++ )
- c. for (int i = 10; i > 1; i-- )
- d. for (int i = 0; i < 10; i++ )

**12** How many times will the following loop execute?

```
public static void main(String args[])
{
```

```
    int i = 1;
    while (i < 10)
        if (i++ % 2 == 0)
            System.out.println(i);
}
```

- a. 4
- b. 5
- c. 0
- d. 10

**13** Which of the following are conditional constructs?

- a. if-else
- b. if-else-if ladder
- c. switch statement
- d. All of these

**14** Which operator cannot be used with if-else statement?

- a. <=
- b. ||
- c. &&
- d. ?:

**15** What will be the output of the following code?

```
int size = 2;
if (size < 0)
    System.out.println("Small");
else if (size == 0)
    System.out.println("Medium");
else
    System.out.println("Large");
```

- a. Small
- b. Large
- c. Medium
- d. Runtime error

**16** What will be the output of the following code?

```
int fruit = 3;
switch (fruit + 1)
{
    case 1:
        System.out.println("Banana");
        break ;
    case 2:
        System.out.println("Apple");
        break ;
    case 3:
        System.out.println("Orange");
        break ;
    default :
        System.out.println("Fruitless");
}
```

- a. Orange
- b. Banana
- c. Apple
- d. Fruitless

17 Predict the output of the following code snippet:

```
int a = 1;  
int b = 2;  
if (a == b)  
    System.out.println ("Both values are equal");  
else  
    System.out.println ("Values are not equal");
```

- a. Both values are equal
- b. Incorrect use of the == operator
- c. Values are not equal
- d. No output

18 Consider the following code snippet:

```
if ( c > d)  
    x = c;  
else  
    x = d;
```

Choose the correct option if the code mentioned above is rewritten using the ternary operator:

- a.  $x = (c > d) ? c : d;$
- b.  $x = (c > d) ? d : c;$
- c.  $x = (c > d) ? c : c;$
- d.  $x = (c > d) ? d : d;$

19 if ((a > b) && (a > c)), then which of the following statements is true?

- a. a is the largest number.
- b. b is the largest number.
- c. c is the largest number.
- d. b is the smallest number.

20 Consider the following code snippet:

```
int val = 2;  
switch (val)  
{  
    case 1: System.out.println("Case 1");  
    break;  
    case 2: System.out.println("Case 2");  
    break;  
    default: System.out.println("No match found");  
    break;  
}
```

Which of the following statements is correct?

- a. case 1 will be executed.
- b. case 2 will be executed.
- c. default will be executed.
- d. both case 1 and 2 will be executed.

21 A sequence of statements enclosed between a pair of curly brackets is called

- a. a compound statement
- b. an empty statement
- c. a null statement
- d. a void statement

22 Which clause is optional in the switch statement?

- a. default
- b. case
- c. switch
- d. None of these

23 Which of the following statements involves a fall-through?

- a. if-else
- b. for loop
- c. if-else-if ladder
- d. switch

24 Which of the following causes a fall-through in the switch statement?

- a. the omission of fall
- b. the omission of continue
- c. the omission of break
- d. the omission of loop

25 Which of the following is mandatory in the switch statement?

- a. break
- b. continue
- c. case
- d. default

**26** Which of the following statement is a valid combination?

- a. if inside switch
- c. else inside switch

- b. switch inside if
- d. default inside if

**27** What will be the output of Math.cbrt(-125)?

- a. 5.0
- c. -5.0
- d. error — can't use Math.cbrt() on a negative number

**28** Which Java package includes the Math class?

- a. java.io
- c. java.util
- b. java.lang
- d. java.sys

**29** Give the output of Math.sqrt(x); when x = 9.0

- a. 3
- c. 3.00
- b. 3.0
- d. All of these

**30** Give the output of Math.ceil(-0.6).

- a. -1.6
- c. -1.0
- b. -1.5
- d. -0.0

**31** Give the output of Math.ceil(-46.6).

- a. -46.6
- c. -47.0
- b. -46.5
- d. -46.0

**32** Give the output of Math.abs(x); when x = -9.99

- a. -9.99
- c. 0.99
- b. 9.99
- d. None of these

**33** Which of the following is a method to find the square root of a number?

- a. FindSquareroot(x)
- c. Math.Square(x)
- b. Sqrt(x)
- d. Math.sqrt(x)

**34** What will be the output of Math.pow(3, 0)?

- a. 0.0
- c. 3.0
- b. 1.0
- d. -1.0

**35** Math.random() returns a double value r such that .....

- a.  $0.0 \leq r < 1.0$
- c.  $0.0 < r \leq 1.0$
- b.  $0.0 \leq r \leq 1.0$
- d.  $0.0 < r < 1.0$

**36** What will be the output of Math.floor(-20.10)?

- a. -20.0
- c. 20
- b. -21.0
- d. 21

**37** What will be the output of Math.round(0.5)?

- a. 0.0
- c. 1
- b. 0
- d. 1.0

**38** What will be the output of Math.abs(-0)?

- a. 0.0
- c. -0
- b. 0
- d. +0

**39** Given the following statements:

```
int min = 1, max = 10;  
int range = max - min + 1;  
int num = (int) (range * Math.random() + min);
```

The value of num will be in integer such that .....

- a.  $1 \leq num \leq 10$
- c.  $1 < num \leq 10$
- b.  $1 \leq num < 10$
- d.  $1 < num < 10$

**40** A programmer wrote the following statement:

```
netPay = grossPay + providentFund;
```

instead of:

```
netPay = grossPay - providentFund;
```

Assuming all the unseen code is correct, what kind of error is it?

- a. Syntax error
- c. Logical error
- b. Runtime error
- d. None of these