

Java Basics

All Questions Must be Answered

1. Question

```
public class Tester {  
    public static void main(String[] args) {  
        int x = 5;  
        boolean b1 = true;  
        boolean b2 = false;  
        if ((x == 4) && !b2 )  
            System.out.print("1 ");  
        System.out.print("2 ");  
        if ((b2 = true) && b1 )  
            System.out.print("3 ");  
    }  
}
```

- ☐ 2
- ☐ 3
- ☐ 1 2
- ☐ 1 2 3
- ☐ 2 3

- Compilation Fails
- An exception is thrown at runtime

2. Question

Which of these values can a boolean variable contain?

1. true
2. false
3. 0
4. 1

- Only 2
- Only 1
- 1 and 4
- 1 and 2

3. Question

```
public class Tester {  
    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 case"
- Compilation error in Line 2 "Cannot use operator in case"
- Compilation error in Line 1 " Cannot use float type in switch"

4. Question

```
public class Tester {
    public static void main(String[] args) {
        int i = 1;
        int j = 0;
        switch (i) {
            case 1:
```

```
j = j + 2;  
case 2:  
    ++j;  
    break;  
case 3:  
    j++;  
default:  
    j = 5;  
    break;  
}  
System.out.println(j);  
}  
}
```

- ☐ 3
- ☐ 5
- ☐ 4
- ☐ 2

5. If switch feature is used, then

- ☐ default case must be present
- ☐ default case, if used , should be the last case

- default case, if used, can be placed anywhere
- none of the above

6. Question

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
- 2147483647

7. Question

```
public class Tester {  
    public static void main(String[] args) {  
        int i = -1, j = -1;  
        switch (i) {  
            case -1:
```

```
j = 1;
case 2:
j = 2;
break;
default:
j = 0;
}
System.out.println("j = " + j);
}
}
```

- j=2
- j=1
- j=0
- Compilation Error

8. Question

```
public class Tester {
    public static void main(String[] args) {
        double i;
        char j = 'b';
        switch (j) {
```

```
case 'a':  
case 'A':  
i = 7.5;  
break;  
case 'b':  
case 'B':  
i = 5.5;  
break;  
case 'c':  
case 'C':  
i = 2.5;  
break;  
default:  
i = 0.5;  
}  
System.out.println(i);  
}  
}
```

- Compilation error as each block must have at least one statement

- Compilation error as variable i is not initialized while declaration
- 0.5
- 5.5

9. Question

What is the result of compiling and running the following code?

```
public static void main(String[] args) {  
    int x = 5, y;  
    while (++x < 7) {  
        y = 2;  
    }  
    System.out.println(x + y);  
}
```

- 7
- 8
- 9
- Compilation Error

10. Question

```
public class Tester {
```



```
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

11. Question

```
public class Tester {  
    public static void main(String[] args) {  
        boolean x = true;  
        boolean y = false;  
        if (x && y) {  
            System.out.println(true);  
        } else {  
            System.out.println(false);  
        }  
    }  
}
```

- ☐ true
- ☐ false
- ☐ true false
- ☐ Compilation Error

12. Which of the following options correctly relates / and %

- ☐ $b = (a/b) * b + a\%b$
- ☐ $a = (a/b) * b + a\%b$
- ☐ $b = (a\%b) * b + a/b$

- $a = (a \% b) * b + a / b$

13. Question

What should be the value of num1 and num2 to get the output as 2?

```
public class Demo {  
    public static void main(String[] args) {  
        int num1;  
        int num2;  
        if ((num1 / num2 == 5) && (num1 + num2) > 5) {  
            System.out.println("1");  
        } else if ((num1 - num2) >= 1 || (num1 % num2) == 0) {  
            System.out.println("2");  
        } else {  
            System.out.println("3");  
        }  
    }  
}
```

- num1 = -10, num2 = 3
- num1 = 5, num2 = 1
- num1 = 0, num2 = 5
- num1 = 11, num2 = 2

14. Question

Find the output of the following program.

```
public class Solution{  
    public static void main(String[] args){  
        byte x = 127;  
        x++;  
        x++;  
        System.out.print(x);  
    }  
}
```

- ☐ -127
- ☐ 127
- ☐ 129
- ☐ 2

15. Question

```
public class Tester {  
    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

16. Question

```
public class Tester {
static {
int x = 3;
}
static int x;
public static void main(String[] args) {
x--; // line 7
System.out.println(x);
}
```

}

- 3
- 2
- -1
- Compilation error at line 7, x is not initialized

17. Question

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

- Hello
- Bye

- Compilation Error
- Runtime Error

18. Question

```
public class Tester {  
    public static void main(String[] args) {  
        int a = 12 * 3 - 9 / 2;  
        int b = 14 * 4 + 175 / 8;  
        if (a++ % 2 == 0) {  
            if (b-- % 4 == 0) {  
                System.out.println("a = " + a + " b = " + b);  
            } else {  
                System.out.println("a = " + a + " b = " + b);  
            }  
        } else {  
            System.out.println("a = " + a + " b = " + --b);  
        }  
    }  
}
```

- a=32 b=76
- a=33 b=76
- a=33 b=77

- a=32 b=77

19. Question

Find the output of the following code.

```
int Integer = 24;
```

```
char String = 'I';
```

```
System.out.print(Integer);
```

```
System.out.print(String);
```

- Compilation Error
- Throws Exception
- I
- 24I

20. Question

Which of the following codes will compile and run properly?

```
a. public class Test1 {  
    public static void main() {  
        System.out.println("Test1");  
    }  
}
```

```
b. public class Test2 {
```



```
static public void main(String[] in) {  
    System.out.println("Test2");  
}
```

```
}
```

```
c. public class Test3 {  
    public static void main(String args) {  
        System.out.println("Test3");  
    }  
}
```

```
}
```

```
d. public class Test4 {  
    staticint main(String args[]) {  
        System.out.println("Test4");  
    }  
}
```

```
}
```

```
e. public class Test5 {  
    static void main(String[] data) {  
        System.out.println("Test5");  
    }  
}
```

```
}
```

- ☐ a only
- ☐ b only

- a and b only
- All are

21. Question

```
class ExampleFive {  
    public static void main(String[] args) {  
        final int i = 22;  
        byte b = i;  
        System.out.println(i + ", " + b);  
    }  
}
```

- Prints: 22, 20
- Runtime Error: Cannot type cast int to byte
- Prints: 22, 22
- Compile Time Error: Loss of precision

22. Question

```
public class Tester {  
    public static void main(String[] args) {  
        int a = 10;  
        int b = 2;
```

```
System.out.println((a < b) ? a++ : --b);  
}  
}
```

- 2
- 1
- 10
- 11

23. Question

```
public class Tester {  
    public static void main(String[] args) {  
        int num1 = 100;  
        int num2 = 200;  
        int num3 = 6;  
        if (5 >= num3) {  
            if (num1 > 100 || num2 > 150) {  
                System.out.println("1");  
            }  
            } else if (num1 >= 100 && num2 > 150) {  
                System.out.println("2");  
            } else {  
                System.out.println("3");  
            }  
        }  
    }  
}
```

}

}

}

- 1
- 2
- 3
- 1 3

24. The purpose of the following program

```
b = s + b;
```

```
s = b - s;
```

```
b = b - s;
```

where s, b are two integers is to

- exchange (swap) the contents of s and b
- transfer contents of s to b
- transfer contents of b to s
- negate the contents of s and b

25. Question

```
public class Tester {
```

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

```
int k = 1;
switch (k) {
default:
System.out.println("Have");
case 'a':
System.out.println("A");
case 'b':
System.out.println("Good Day");
}
}
}
```

- Hava A
- Compilation Error
- Have
- Have A Good Day

26. Question

Find the output of the following program.

```
public class Solution{
public static void main(String[] args){
short x = 10;
x = x * 5;
```

```
System.out.print(x);  
}  
}
```

- 50
- 10
- Compilation Error
- Runtime Error

27. Question

```
public class Tester {  
    public static void main(String[] args) {  
        int num1 = 20;  
        double num2 = 0;  
        if (num1 >= 20)  
            num2 = 1.5;  
        if (num1 < 30)  
            num2 = 2;  
        System.out.println("Value of num2 is " + num2);  
    }  
}
```

- Value of num2 is 2.0
- Value of num2 is 2
- Value of num2 is 1.5
- Runtime Error

28. Question

. Number of primitive data types in Java are?

- 6
- 7
- 9
- 8

29. Question

```
public class Tester {  
    public static void main(String[] args) {  
        int a = -10;  
        int b = -200;  
        int c = 2000;  
        int d = 4000;  
        if (a * b >= d) {  
            if (d > c) {
```

```
if (d % c != 0) {  
    System.out.println(11);  
} else {  
    System.out.println(22);  
}  
  
}  
  
} else {  
    if (b / a > 0) {  
        if (a < b || d % c != 0) {  
            System.out.println(33);  
        } else {  
            System.out.println(44);  
        }  
    }  
}  
  
}  
  
}
```

- ☐ 44
- ☐ 11
- ☐ 33
- ☐ 22

30. Question

```
public class Tester {  
    public static void main(String[] args) {  
        int k = 1;  
        switch (k) {  
            default:  
                System.out.println("Hello");  
            case 1:  
                System.out.println("Welcome");  
            case 2:  
                System.out.println("To");  
            case 3:  
                System.out.println("Infosys");  
            break;  
        }  
    }  
}
```

- ☐ Welcome to Infosys
- ☐ Hello
- ☐ Welcome
- ☐ Compilation Error