

## Tests & Quizzes

### 05\_BTJB\_Quiz1\_Java Basics & OOP in Java

[Show Feedback](#) | [Table of Contents](#)

Part 1 of 1 -

Question 1 of 20

5.0 Points

```
class M {  
    public static void main (String[] args) {  
        int a = 1; // 1  
        short b = 1; // 2  
        long c = 1; // 3  
        a = c + a; // 4  
        c = b + a; // 5  
    }  
}
```

A compile-time error is generated at which line?

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☒ D. 4
- ☐ E. 5
- ☐ F. None of the above

[Reset Selection](#)

Question 2 of 20

5.0 Points

```
class M {  
    public static void main (String[] args) {  
        String s1 = "ABCDE";  
        System.out.print(s1.substring(1,2)+s1.substring(3));  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: AABC

- ☐ B. Prints: ACDE
- ☐ C. Prints: ABABC
- ☐ D. Prints: ABCDE
- ☐ E. Prints: BABCD
- ☒ F. Prints: BDE
- ☐ G. None of the above

[Reset Selection](#)

Question 3 of 20

5.0 Points

```
class A {  
    public static void main(String[] args) {  
        boolean b;  
        if (b = false) {System.out.print("A");  
        } else if (b) {System.out.print("B");  
        } else if (!b) {System.out.print("C");  
        } else {System.out.print("D");}  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: A
- ☐ B. Prints: B
- ☒ C. Prints: C
- ☐ D. Prints: D
- ☐ E. Run-time error
- ☐ F. Compile-time error
- ☐ G. None of the above

[Reset Selection](#)

Question 4 of 20

5.0 Points

```
class M {  
    public static void main (String[] args) {  
        String a1 = null; // 1  
        String b1 = 'null'; // 2  
        String c1 = "null"; // 3  
        String d1 = ""null""; // 4  
    }  
}
```

```
}
```

A compile-time error is generated at which line?

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4
- ☒ E. None of the above

[Reset Selection](#)

Question 5 of 20

5.0 Points

```
class E {  
    static int m(int i) {System.out.print(i + ", "); return i;}  
    public static void main(String s[]) {  
        m(m(1) - m(2) + m(3) * m(4));  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: 1, 2, 3, 4, 8,
- ☒ B. Prints: 1, 2, 3, 4, 11,
- ☐ C. Prints: 3, 4, 1, 2, 11,
- ☐ D. Run-time error
- ☐ E. Compile-time error
- ☐ F. None of the above

[Reset Selection](#)

Question 6 of 20

5.0 Points

```
class T {  
    public static void main (String[] args) {  
        byte b = 1; // 1  
        long l = 1000; // 2  
        b += l; // 3  
    }  
}
```

A compile-time error is generated at which line?

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. None of the above

[Reset Selection](#)

Question 7 of 20

5.0 Points

```
class M {  
    public static void main (String[] args) {  
        // Insert code here.  
    }  
}
```

Which of the following lines can be inserted at the specified location without generating a compile-time error?

- ☐ A. String a = 'a';
- ☐ B. String b = 'abc';
- ☐ C. String c = "\u0041";
- ☐ D. String d = "\uabcd";
- ☐ E. None of the above

[Reset Selection](#)

Question 8 of 20

5.0 Points

```
class M {  
    public static void main(String[] s) {  
        String s1 = "1", s2 = "2", s3 = s1 + s2;  
        s1 += s2; s3 += s1;  
        System.out.println(s3);  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: 3
- ☐ B. Prints: 6
- ☐ C. Prints: 33
- ☒ D. Prints: 1212
- ☐ E. Compile-time error

- ☐ F. Run-time error
- ☐ G. None of the above

[Reset Selection](#)

Question 9 of 20

5.0 Points

```
class M {  
    public static void main (String[] args) {  
        int i = 0, j = 9;  
        do {  
            i++;  
            if (j-- < i++) {break;}  
        } while (i < 5);  
        System.out.print(i + "," + j);  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: 5,4
- ☐ B. Prints: 6,3
- ☒ C. Prints: 6,6
- ☐ D. Prints: 7,2
- ☐ E. Run-time error
- ☐ F. Compile-time error
- ☐ G. None of the above

[Reset Selection](#)

Question 10 of 20

5.0 Points

```
class E {  
    public static void main (String[] args) {  
        byte x = 3, y = 5;  
        System.out.print((y % x) + ",");  
        System.out.print(y == ((y/x)*x + (y%x)));  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: 1,true

- ☒ B. Prints: 2,true
- ☐ C. Prints: 1,false
- ☐ D. Prints: 2,false
- ☐ E. Run-time error
- ☐ F. Compile-time error
- ☐ G. None of the above

[Reset Selection](#)

Question 11 of 20

5.0 Points

```
class M {  
    public static void main(String[] args) {  
        boolean b;  
        if (b = false) {System.out.print("A");  
        } else if (b) {System.out.print("B");  
        } else if (!b) {System.out.print("C");  
        } else {System.out.print("D");}  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: A
- ☐ B. Prints: B
- ☒ C. Prints: C
- ☐ D. Prints: D
- ☐ E. Run-time error
- ☐ F. Compile-time error
- ☐ G. None of the above

[Reset Selection](#)

Question 12 of 20

5.0 Points

```
class M {  
    static void m1(String s1) {  
        s1.replace('A','Y'); System.out.print(s1);  
    }  
    static void m2(String s1) {  
        s1 = s1.replace('A','Z'); System.out.print(s1);  
    }  
}
```

```
public static void main(String[] s) {  
    String s1 = "A"; m1(s1); m2(s1);  
    System.out.print(s1);  
}  
  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: AAA
- ☐ B. Prints: YZA
- ☐ C. Prints: YAA
- ☒ D. Prints: AZA
- ☐ E. Compile-time error
- ☐ F. Run-time error
- ☐ G. None of the above

[Reset Selection](#)

Question 13 of 20

5.0 Points

```
class G {  
    public static void main (String[] s) {  
        System.out.print(s[1] + s[2] + s[3]);  
    }  
  
}  
  
java GRC10 A B C D E F
```

What is the result of attempting to compile and run the program using the specified command line?

- ☐ A. Prints: ABC
- ☐ B. Prints: BCD
- ☐ C. Prints: CDE
- ☐ D. Prints: A B C
- ☐ E. Prints: B C D
- ☐ F. Prints: C D E
- ☐ G. Compile-time error
- ☐ H. Run-time error
- ☐ I. None of the above

[Reset Selection](#)

## Question 14 of 20

5.0 Points

```
class JMM122 {  
    public static void main (String[] args) {  
        for (int i = 0; i < 4; i++) {  
            switch (i) {  
                case 0: System.out.print("A");  
                case 1: System.out.print("B");  
                case 2: System.out.print("C");  
            }  
        }  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: ABC
- ☐ B. Prints: ABCC
- ☐ C. Prints: CBA
- ☒ D. Prints: ABCBCC
- ☐ E. Run-time error
- ☐ F. Compile-time error
- ☐ G. None of the above

[Reset Selection](#)

## Question 15 of 20

5.0 Points

```
class G {  
    static int m1(int x) {return ++x;}  
    public static void main (String[] args) {  
        int x = 1;  
        int y = m1(x);  
        System.out.println(x + "," + y);  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: 1,1
- ☒ B. Prints: 1,2
- ☐ C. Prints: 2,1



- ☐ D. Prints: 2,2
- ☐ E. Run-time error
- ☐ F. Compile-time error
- ☐ G. None of the above

[Reset Selection](#)

Question 16 of 20

5.0 Points

```
class M {  
    public static void main(String[] args) {  
        int[][] a1 = {{1,2,3},{4,5,6},{7,8,9,10}};  
        System.out.print(a1[0][2]+","+a1[1][0]+","+a1[2][1]);  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: 3,4,8
- ☐ B. Prints: 7,2,6
- ☐ C. Compile-time error
- ☐ D. Run-time error
- ☐ E. None of the above

[Reset Selection](#)

Question 17 of 20

5.0 Points

```
class M {  
    public static void main (String[] args) {  
        // Insert code here.  
    }  
}
```

Which of the following lines can be inserted at the specified location without generating a compile-time error?

- ☐ A. char a = a;
- ☐ B. char b = abc;
- ☐ C. char c = \u0041;
- ☐ D. char d = \uabcd;
- ☐ E. None of the above

[Reset Selection](#)

Question 18 of 20

5.0 Points

```
class M {  
    public static void main(String args[]) {  
        String a = "A", b = "B", c = a+b, d = a+b;  
        System.out.print(((a+b)==(a+b)) + ",");  
        System.out.print((c==d) + ",");  
        System.out.print(c.equals(d));  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: true,false,true
- ☐ B. Prints: false,true,true
- ☐ C. Prints: true,true,false
- ☐ D. Prints: true,true,true
- ☒ E. Prints: false,false,true
- ☐ F. Prints: false,false,false
- ☐ G. Prints: false,true,false
- ☐ H. Prints: true,false,false

[Reset Selection](#)

Question 19 of 20

5.0 Points

```
class M {  
    static boolean b;  
    public static void main(String[] args) {  
        if (b) {System.out.print("A");  
        } else if (b = false) {System.out.print("B");  
        } else if (b) {System.out.print("C");  
        } else if (!b) {System.out.print("D");  
        } else {System.out.print("E");}  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☐ A. Prints: A
- ☐ B. Prints: B

- ☐ C. Prints: C
- ☒ D. Prints: D
- ☐ E. Prints: E
- ☐ F. Run-time error
- ☐ G. Compile-time error
- ☐ H. None of the above

[Reset Selection](#)

Question 20 of 20

5.0 Points

```
class M {  
    public static void main (String[] args) {  
        int j = 0;  
        for (int i = 0; i < 2; i++) do  
            System.out.print(i);  
        while (j++ < 2);  
    }  
}
```

What is the result of attempting to compile and run the program?

- ☒ A. Prints: 0001
- ☐ B. Prints: 012
- ☐ C. Prints: 012012
- ☐ D. Prints: 012345
- ☐ E. Prints: 001122
- ☐ F. Prints: 1112
- ☐ G. Prints: 111222
- ☐ H. Prints: 121212
- ☐ I. Run-time error
- ☐ J. Compile-time error

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