

## Tests & Quizzes

### 05\_BTJB\_Quiz2\_Advanced OOP in Java

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

Part 1 of 1 -

Question 1 of 20

5.0 Points

```
class G {  
    static void m(Object x) {System.out.print("Object");}  
    static void m(String x) {System.out.print("String");}  
    public static void main(String[] args) {m(null);}  
}
```

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

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

[Reset Selection](#)

Question 2 of 20

Which of the following modifiers can be applied to the declaration of a field?(Multi choice)

5.0 Points

- ☐ A. abstract
- ☐ B. final
- ☐ C. private
- ☐ D. protected
- ☐ E. Public

Question 3 of 20

5.0 Points

```
class G {  
    static String m(int i) {return "int";}
```

```
static String m(float i) {return "float";}
public static void main (String[] args) {
    long a1 = 1; double b1 = 2; System.out.print(m(a1)+","+ m(b1));
}
}
```

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

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

[Reset Selection](#)

Question 4 of 20

5.0 Points

```
class Red {
    public int a; public static int b;
    public static void main (String[] in) {
        Red r1 = new Red(), r2 = new Red(); r1.a++; r1.b++;
        System.out.print(r1.a+", "+r1.b+", "+r2.a+", "+r2.b);
    }
}
```

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

- ☐ A. Prints: 0, 0, 0, 0
- ☐ B. Prints: 0, 1, 1, 1
- ☐ C. Prints: 1, 1, 1, 0
- ☐ D. Prints: 1, 1, 0, 1
- ☐ E. Prints: 1, 1, 0, 0
- ☐ F. Prints: 1, 1, 1, 1
- ☒ G. Compile-time error
- ☐ H. Run-time error
- ☐ I. None of the above

[Reset Selection](#)

Question 5 of 20

5.0 Points

```
class G {  
    static String m(float i) {return "float";}   
    static String m(double i) {return "double";}   
    public static void main (String[] args) {  
        char a1 = 1; long b1 = 2; System.out.print(m(a1)+","+ m(b1));  
    }  
}
```

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

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

[Reset Selection](#)

Question 6 of 20

5.0 Points

```
class A {void m1(A a) {System.out.print("A");}}  
class B extends A {void m1(B b) {System.out.print("B");}}  
class C extends B {void m1(C c) {System.out.print("C");}}  
class D {  
    public static void main(String[] args) {  
        A a1 = new A(); B b1 = new B(); C c1 = new C(); C c2 = new A();  
        c2.m1(a1); c2.m1(b1); c2.m1(c1);  
    }  
}
```

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

- ☒ A. Prints: AAA
- ☐ B. Prints: ABC
- ☐ C. Prints: CCC
- ☐ D. Compile-time error

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

[Reset Selection](#)

Question 7 of 20

5.0 Points

```
class A {  
public static void main (String[] args) {  
    private int x = 1; protected int y = 2; public int z = 3;  
    System.out.println(x+y+z);  
}
```

```
}
```

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

- ☐ A. Prints: 123
- ☐ B. Prints: 1 2 3
- ☐ C. Prints: 6
- ☐ D. Run-time error
- ☐ E. Compile-time error
- ☒ F. None of the above

[Reset Selection](#)

Question 8 of 20

5.0 Points

```
class A {  
    static int x; // 1  
    public static void main(String[] args) { // 2  
        int y; // 3  
        System.out.println("x="+x); // 4  
        System.out.println("y="+y); // 5  
    }
```

```
}
```

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

- ☐ A. Compile-time error at line 1.
- ☐ B. Compile-time error at line 2.
- ☐ C. Compile-time error at line 3.
- ☐ D. Compile-time error at line 4.

- ☒ E. Compile-time error at line 5.
- ☐ F. Run-time error
- ☐ G. None of the above

[Reset Selection](#)

Question 9 of 20

5.0 Points

```
class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}
class D {
    public static void main(String[] args) {
        A c1 = new C(); B c2 = new C(); C c3 = new C(); C c4 = new C();
        c4.m1(c1); c4.m1(c2); c4.m1(c3);
    }
}
```

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

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

[Reset Selection](#)

Question 10 of 20

5.0 Points

```
class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}
class D {
    public static void main(String[] args) {
        A a1 = new A(); B b1 = new B(); C c1 = new C(); A c2 = new C();
        c2.m1(a1); c2.m1(b1); c2.m1(c1);
    }
}
```

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

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

[Reset Selection](#)

Question 11 of 20

```
public class Basics {} // 1
class Basics1 {} // 2
protected class Basics2 {} // 3
private class Basics3 {} // 4
Class Basics4 {} // 5
```

5.0 Points

Suppose these are top-level class declarations and not nested class declarations; and suppose that all of the declarations are contained in one file named Basics.java. Compile-time errors are generated at which lines? (Multi choice)

- ☐ A. 1
- ☐ B. 2
- ☒ C. 3
- ☒ D. 4
- ☒ E. 5

Question 12 of 20

Which of the following modifiers can be applied to a constructor? (Multi choice)

5.0 Points

- ☒ A. protected
- ☒ B. public
- ☐ C. static
- ☐ D. synchronized
- ☐ E. Transient

Question 13 of 20

Which of the following modifiers can not be applied to a method?

5.0 Points

- ☐ A. abstract
- ☐ B. private

- ☐ C. protected
- ☐ D. public
- ☒ E. volatile
- ☐ F. None of the above.

[Reset Selection](#)

Question 14 of 20

5.0 Points

```
class G {  
    static String m(float i) {return "float";}   
    static String m(double i) {return "double";}   
    public static void main (String[] args) {  
        int a1 = 1; long b1 = 2; System.out.print(m(a1)+", "+ m(b1));  
    }  
}
```

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

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

[Reset Selection](#)

Question 15 of 20

5.0 Points

```
class Basics {  
    int x = 1, y = 2;  
    public static void main (String[] args) {System.out.println(x+y);}   
}
```

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

- ☐ A. Prints: x+y
- ☐ B. Prints: 12
- ☐ C. Prints: 3
- ☐ D. Run-time error

- ☐ E. Compile-time error
- ☐ F. None of the above

[Reset Selection](#)

Question 16 of 20

Which of the following modifiers can be applied to the declaration of a field? (Multi choice)

5.0 Points

- ☐ A. abstract
- ☐ B. final
- ☐ C. private
- ☐ D. protected
- ☐ E. Public

Question 17 of 20

Which of the following statements is true?

5.0 Points

- ☐ A. An abstract method can not be overridden by an abstract method.
- ☐ B. An instance method that is not abstract can not be overridden by an abstract method.
- ☐ C. An abstract method declaration can not include a throws clause.
- ☐ D. The body of an abstract method is represented by a set of empty brackets.
- ☐ E. None of the above.

[Reset Selection](#)

Question 18 of 20

5.0 Points

```
class G {  
    int x; // 1  
    public static void main(String[] args) { // 2  
        int y = 0; // 3  
        System.out.print(x+","); // 4  
        System.out.print(y); // 5  
    }  
}
```

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

- ☐ A. Prints: 0,0
- ☐ B. Compile-time error at line 1.
- ☐ C. Compile-time error at line 1.



- ☐ D. Compile-time error at line 2.
- ☐ E. Compile-time error at line 3.
- ☒ F. Compile-time error at line 4.
- ☐ G. Compile-time error at line 5.
- ☐ H. Run-time error
- ☐ I. None of the above

[Reset Selection](#)

Question 19 of 20

5.0 Points

```
class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}
class D {
    public static void main(String[] args) {
        A c1 = new C(); C c2 = new C(); c1.m1(c2);
    }
}
```

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

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

[Reset Selection](#)

Question 20 of 20

5.0 Points

```
class A {void m1(A a) {System.out.print("A");}}
class B extends A {void m1(B b) {System.out.print("B");}}
class C extends B {void m1(C c) {System.out.print("C");}}
class D {
    public static void main(String[] args) {
        A a1 = new A(); A b1 = new B(); A c1 = new C(); C c4 = new C();
        a1.m1(c4); b1.m1(c4); c1.m1(c4);
    }
}
```

```
}
```

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

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

[Reset Selection](#)

Save

Exit

Submit for Grading

- [Gateway](#)
- [Accessibility Information](#)
- [The Sakai Project](#)
- [Powered by Sakai](#)
- Copyright 2017 FPT-Software