

Started on Tuesday, 16 December 2025, 12:41 PM**State** Finished**Completed on** Tuesday, 16 December 2025, 12:46 PM**Time taken** 5 mins 35 secs**Marks** 22.00/30.00**Grade** 73.33 out of 100.00**Question 1**

Complete

Mark 1.00 out of 1.00

What is the output of the following code?

```
class A {
    void show() {
        System.out.println("A");
    }
}
class B extends A {
    void show() {
        System.out.println("B");
    }
}
public class Test {
    public static void main(String[] args) {
        A obj = new B();
        obj.show();
    }
}
```

- ☐ a. A
- ☐ b. Compilation error
- ☒ c. B
- ☐ d. Runtime error

Question 2

Complete

Mark 1.00 out of 1.00

What is the output of the following code?

```
class Test {
    public static void main(String[] args) {
        try {
            int x = 10 / 0;
            System.out.println(x);
        } catch (ArithmeticException e) {
            System.out.println("Exception");
        } finally {
            System.out.println("Finally");
        }
    }
}
```

- ☐ a. Runtime error
- ☐ b. Finally
- ☒ c. Exception Finally
- ☐ d. Exception

Question 3

Complete

Mark 0.00 out of 1.00

What is the output of the following code?

```
class Parent {
    static void display() {
        System.out.println("Parent");
    }
}
class Child extends Parent {
    static void display() {
        System.out.println("Child");
    }
}
public class Test {
    public static void main(String[] args) {
        Parent p = new Child();
        p.display();
    }
}
```

- ☐ a. Parent
- ☒ b. Child
- ☐ c. Compilation error
- ☐ d. Runtime error

Question 4

Complete

Mark 0.00 out of 1.00

What is the output of the following code?

```
class Test {
    static void fun(Object o) {
        System.out.println("Object");
    }
    static void fun(String s) {
        System.out.println("String");
    }
    public static void main(String[] args) {
        fun(null);
    }
}
```

- ☐ a. Runtime exception
- ☐ b. Compilation error
- ☐ c. String
- ☒ d. Object

Question 5

Complete

Mark 1.00 out of 1.00

What is the output of the following code?

```
class Test {  
    public static void main(String[] args) {  
        try {  
            throw new Exception("Test");  
        } catch (Exception e) {  
            System.out.println(e.getMessage());  
        }  
    }  
}
```

- ☐ a. Runtime error
- ☒ b. Test
- ☐ c. Exception
- ☐ d. null

Question 6

Complete

Mark 0.00 out of 1.00

What happens if an exception is thrown but not caught in a method?

- ☒ a. JVM terminates the program
- ☐ b. Program continues normally
- ☐ c. Exception is propagated to caller
- ☐ d. Exception is ignored

Question 7

Complete

Mark 1.00 out of 1.00

What happens if finally block contains a return statement?

- ☐ a. Exception is ignored
- ☐ b. Compilation error
- ☒ c. Finally return overrides others
- ☐ d. Catch block return executes

Question 8

Complete

Mark 0.00 out of 1.00

What will happen if a subclass does not implement all abstract methods of its superclass?

- ☐ a. Runtime exception occurs
- ☐ b. Subclass must be declared abstract
- ☐ c. Code compiles successfully
- ☒ d. Methods are inherited automatically

Question 9

Complete

Mark 1.00 out of 1.00

Which access modifier allows visibility only within the same package?

- ☐ a. public
- ☐ b. protected
- ☒ c. default
- ☐ d. private

Question 10

Complete

Mark 1.00 out of 1.00

Which binding occurs at runtime?

- ☐ a. Compile-time binding
- ☐ b. Early binding
- ☐ c. Static binding
- ☒ d. Dynamic binding

Question 11

Complete

Mark 0.00 out of 1.00

Which exception is checked at compile time?

- ☐ a. NullPointerException
- ☐ b. ArithmeticException
- ☐ c. IOException
- ☒ d. ArrayIndexOutOfBoundsException

Question 12

Complete

Mark 1.00 out of 1.00

Which exception is thrown explicitly using the throw keyword?

- ☒ a. Any exception object
- ☐ b. Checked exception only
- ☐ c. JVM exception
- ☐ d. User-defined exception

Question 13

Complete

Mark 0.00 out of 1.00

Which exception is thrown when a class is not found at runtime?

- ☒ a. ClassNotFoundException
- ☐ b. IOException
- ☐ c. FileNotFoundException
- ☐ d. NoClassDefFoundError

Question 14

Complete

Mark 0.00 out of 1.00

Which exception occurs when converting incompatible types?

- ☐ a. NumberFormatException
- ☒ b. IllegalArgumentException
- ☐ c. ClassCastException
- ☐ d. ArithmeticException

Question 15

Complete

Mark 1.00 out of 1.00

Which is NOT allowed in an interface (Java 8+)?

- ☐ a. static methods
- ☐ b. default methods
- ☒ c. instance variables
- ☐ d. abstract methods

Question 16

Complete

Mark 1.00 out of 1.00

Which keyword is used to explicitly call the parent class constructor?

- ☐ a. base
- ☐ b. parent
- ☒ c. super
- ☐ d. this

Question 17

Complete

Mark 1.00 out of 1.00

Which keyword is used to prevent inheritance?

- ☐ a. protected
- ☐ b. private
- ☒ c. final
- ☐ d. static

Question 18

Complete

Mark 1.00 out of 1.00

Which keyword prevents method overriding?

- ☒ a. final
- ☐ b. static
- ☐ c. private
- ☐ d. protected

Question 19

Complete

Mark 1.00 out of 1.00

Which method is called first during object creation?

- ☒ a. Static block
- ☐ b. main method
- ☐ c. Constructor
- ☐ d. Instance block

Question 20

Complete

Mark 1.00 out of 1.00

Which of the following best demonstrates encapsulation?

- ☐ a. Using method overloading
- ☐ b. Using inheritance
- ☒ c. Binding data and methods together
- ☐ d. Using interfaces

Question 21

Complete

Mark 0.00 out of 1.00

Which of the following best supports loose coupling?

- ☐ a. Static methods
- ☒ b. Concrete classes
- ☐ c. Final classes
- ☐ d. Interfaces

Question 22

Complete

Mark 1.00 out of 1.00

Which of the following can throw a NullPointerException?

- ☐ a. Dividing by zero
- ☐ b. Accessing array out of bounds
- ☐ c. Parsing integer from string
- ☒ d. Calling method on null reference

Question 23

Complete

Mark 1.00 out of 1.00

Which of the following is TRUE about instanceof operator?

- ☒ a. Checks object type at runtime
- ☐ b. Used only with interfaces
- ☐ c. Works only with primitives
- ☐ d. Causes ClassCastException

Question 24

Complete

Mark 1.00 out of 1.00

Which OOP concept allows a subclass to provide a specific implementation of a method already defined in its superclass?

- ☐ a. Abstraction
- ☐ b. Encapsulation
- ☐ c. Method Overloading
- ☒ d. Method Overriding

Question 25

Complete

Mark 1.00 out of 1.00

Which OOP concept allows one interface to inherit another interface?

- ☒ a. Inheritance
- ☐ b. Polymorphism
- ☐ c. Abstraction
- ☐ d. Encapsulation

Question 26

Complete

Mark 1.00 out of 1.00

Which OOP concept is achieved using interfaces?

- ☐ a. Tight coupling
- ☐ b. Data hiding
- ☒ c. Multiple inheritance
- ☐ d. Encapsulation

Question 27

Complete

Mark 1.00 out of 1.00

Which principle is violated if all class variables are declared public?

- ☒ a. Encapsulation
- ☐ b. Polymorphism
- ☐ c. Abstraction
- ☐ d. Inheritance

Question 28

Complete

Mark 1.00 out of 1.00

Which statement about abstract classes in Java is TRUE?

- ☒ a. They can contain both abstract and non-abstract methods
- ☐ b. They cannot have constructors
- ☐ c. They cannot have instance variables
- ☐ d. They cannot be extended

Question 29

Complete

Mark 1.00 out of 1.00

Which statement about constructors is TRUE?

- ☐ a. Constructors can be inherited
- ☐ b. Constructors can be abstract
- ☒ c. Constructors can be overloaded
- ☐ d. Constructors can be overridden

Question 30

Complete

Mark 1.00 out of 1.00

Which type of polymorphism is resolved at compile time?

- ☒ a. Method overloading
- ☐ b. Method overriding
- ☐ c. Dynamic binding
- ☐ d. Runtime polymorphism