

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 (ArithmaticException 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