

Java Model Paper

Java Practice Exam - Set 1 (Basic Level)

Section 1: Classes, Objects, and Variable Declaration

1. What is the default value of a boolean variable in Java?

- a) `true`
- b) `false`
- c) `0`
- d) `null`

2. In Java, a class can directly inherit from:

- a) Only one superclass
- b) Multiple classes
- c) Any number of classes
- d) Only abstract classes

3. Which of the following cannot be used as a variable name in Java?

- a) `_name`
- b) `1name`
- c) `NAME`
- d) `n_a_m_e`

4. What does the `new` keyword in Java do?

- a) Creates a new variable
- b) Allocates memory for an object
- c) Defines a class
- d) Deletes an object

5. Which is true about a constructor in Java?

- a) It must have the same name as the class
- b) It must have a return type
- c) It can have any name
- d) It can only be used for inheritance

6. Which statement correctly creates an object in Java?

- a) `Class obj;`
- b) `Class obj = new Class();`
- c) `new Class obj;`
- d) `obj = Class();`

7. What is the default access level of a variable with no access modifier?

- a) `public`
- b) `private`
- c) `protected`
- d) `default`

8. Which keyword is used to declare a constant variable in Java?

- a) `constant`
- b) `static`
- c) `final`
- d) `const`

9. Which of the following is true about an instance variable?

- a) It is shared by all objects of a class
- b) It is unique to each instance of a class
- c) It cannot be assigned a default value
- d) It must be declared `static`

10. Which keyword is used to define a class?

- a) `class`
- b) `define`

c) `object`

d) `new`

Java Practice Exam - Set 2 (Intermediate Level)

Section 1: Inheritance, Polymorphism, and Encapsulation

1. Which of the following correctly describes method overloading?
 - a) Overriding a method in the child class
 - b) Declaring multiple methods with the same name but different parameters**
 - c) Declaring multiple methods with the same name and same parameters
 - d) Inheriting a method from the superclass
2. If a subclass does not override an abstract method of its superclass, what will happen?
 - a) The subclass will be compiled successfully
 - b) The subclass will become an abstract class itself**
 - c) The subclass will give a runtime error
 - d) The superclass method will be called by default
3. Which of the following access modifiers is the most restrictive?
 - a) `public`
 - b) `protected`
 - c) `private`**
 - d) `default`
4. What will happen if a class has two methods with the same name but different parameter lists?
 - a) A compilation error
 - b) Both methods can be called without any issue**
 - c) Java will choose one method randomly
 - d) Only the first method will be called

5. **What is the purpose of `super` in inheritance?**
- a) It allows access to superclass variables and methods
 - b) It creates an instance of the superclass
 - c) It refers to the current class
 - d) It imports packages
6. **What is the default access level for a member in a class?**
- a) `private`
 - b) `protected`
 - c) `public`
 - d) `default`
7. **Which of the following cannot be inherited?**
- a) Public methods
 - b) Static methods
 - c) Non-final variables
 - d) Protected methods
8. **In polymorphism, a method that is defined in multiple classes must have:**
- a) The same name only
 - b) Different return types
 - c) The same name and parameters
 - d) Only different names
9. **The keyword used to prevent a class from being extended is:**
- a) `static`
 - b) `final`
 - c) `abstract`
 - d) `public`
10. **What keyword is used to create a subclass?**
- a) `implements`

- b) `extends`
 - c) `inherits`
 - d) `super`
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Java Practice Exam - Set 3 (Advanced Intermediate Level)

Section 1: Abstraction, Packages, and Interfaces

1. **An interface can contain which of the following elements?**
 - a) Only static methods
 - b) Only abstract methods
 - c) Static and abstract methods
 - d) Static, abstract, and private methods
2. **If a class implements an interface, it must:**
 - a) Implement all methods in the interface
 - b) Extend the interface
 - c) Override only abstract methods in the interface
 - d) Override methods optionally
3. **The package statement must be written:**
 - a) After import statements
 - b) Before import statements
 - c) After the class declaration
 - d) Anywhere in the class
4. **What is the default value of an instance variable of type `int` in Java?**
 - a) 0
 - b) null
 - c) undefined
 - d) 1

5. Which keyword is used to import a package in Java?

- a) `include`
- b) `import`
- c) `package`
- d) `use`

6. Can an abstract class have a constructor?

- a) Yes
- b) No
- c) Only if it has abstract methods
- d) Only if it has static methods

7. In Java, which package is imported by default in every program?

- a) `java.awt`
- b) `java.lang`
- c) `java.util`
- d) `java.io`

8. If a variable is declared as `protected`, it is accessible within:

- a) All packages
- b) The same package and subclasses
- c) Only the same class
- d) Only subclasses

9. What will happen if a variable is declared `final`?

- a) Its value can be changed once assigned
- b) Its value cannot be changed once assigned
- c) It must be assigned a value in the constructor
- d) It cannot be accessed outside its class

10. An abstract class is:

- a) A class with no methods

- b) A class that cannot be instantiated
 - c) A class with all abstract methods
 - d) A subclass only
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Java Practice Exam - Set 4 (Advanced Level)

Section 1: Interfaces, Abstract Classes, and Method Overriding

1. **Which of the following statements about interfaces is correct?**
 - a) An interface can have a constructor
 - b) An interface can be instantiated
 - c) An interface can have `default` and `static` methods
 - d) An interface can contain instance variables
2. **Which of these statements correctly describes method overriding in Java?**
 - a) Overriding changes the return type but keeps the same parameters
 - b) Overriding changes the parameter list but keeps the same method name
 - c) Overriding allows a subclass to provide a specific implementation of a method in the superclass
 - d) Overriding and overloading are synonymous
3. **What is true about abstract classes in Java?**
 - a) Abstract classes cannot have constructors
 - b) Abstract classes can be instantiated directly
 - c) Abstract classes can contain both abstract and non-abstract methods
 - d) Abstract classes must implement all interface methods
4. **When an interface method has a `default` implementation, a class implementing the interface can:**
 - a) Ignore the method
 - b) Override the method if desired
 - c) Not override the method

- d) Extend the interface to use the method
5. **Which access modifier should be used for the maximum encapsulation within a class?**
- a) `protected`
 - b) `default`
 - c) `public`
 - d) `private`
6. **In which of the following cases will a compilation error occur?**
- a) A class contains both abstract and concrete methods
 - b) A non-abstract class has an abstract method
 - c) An abstract class is extended by another class
 - d) A concrete class implements an interface
7. **If a class is marked `final`, which of the following is true?**
- a) It cannot have private methods
 - b) It cannot have abstract methods
 - c) It can be extended
 - d) It cannot have instance variables
8. **How is an abstract method different from a regular method?**
- a) It must have a body
 - b) It does not specify any implementation
 - c) It can be called without an instance
 - d) It must be `public`
9. **What is polymorphism in the context of Java programming?**
- a) A single variable or method behaving differently depending on the object that invokes it
 - b) Creating multiple objects of a class
 - c) Extending multiple classes

d) Implementing multiple interfaces

10. Which of the following is true about `protected` access modifier?

- a) `protected` members are accessible only within the same package
 - b) `protected` members are accessible in the same package and subclasses
 - c) `protected` members are accessible only within the same class
 - d) `protected` members are accessible only through instances
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Java Practice Exam - Set 5 (Expert Level)

Section 1: Advanced Polymorphism, Scoping, and Keywords

1. What would be the output if a `static` method is overridden in a subclass?

- a) The subclass method will always be called
- b) The superclass version will be hidden, not overridden
- c) A runtime exception will occur
- d) It will override the superclass version

2. Which combination of access modifiers and keywords would make a class uninstantiable?

- a) `abstract` only
- b) `final` only
- c) `final` and `static`
- d) `private` and `final`

3. What happens if a class does not declare any constructor?

- a) The class will not compile
- b) Java will provide a default no-argument constructor
- c) Java will provide a default constructor with parameters
- d) The superclass constructor must be called

4. Which of the following is true about a `final` variable?

- a) It can be assigned a value multiple times

- b) It must be assigned a value when declared
 - c) It must be assigned a value either at declaration or in the constructor
 - d) It can be modified at runtime
5. **What is the primary purpose of the `super` keyword in a subclass constructor?**
- a) To call the superclass method
 - b) To call the superclass constructor
 - c) To initialize instance variables
 - d) To override a superclass method
6. **In which of these situations is a compilation error generated?**
- a) A class that extends an abstract class overrides all its methods
 - b) A class implements an interface without implementing its methods
 - c) A concrete class does not implement all interface methods
 - d) A class has only private methods
7. **Which of the following is true about method overloading?**
- a) Overloaded methods must have different return types
 - b) Overloaded methods must have the same parameter list
 - c) Overloaded methods can have different parameter lists
 - d) Overloaded methods can only be `static`
8. **Which of the following is not a valid access modifier?**
- a) `public`
 - b) `default`
 - c) `global`
 - d) `protected`
9. **In Java, which statement is true about static methods?**
- a) Static methods cannot access instance variables
 - b) Static methods can only be overridden by static methods

- c) Static methods can access `this` keyword
- d) Static methods cannot access other static methods

10. **Which of the following describes the purpose of the `extends` keyword?**

- a) To implement an interface
- b) To call a superclass constructor
- c) To inherit from a superclass**
- d) To create multiple inheritance in Java