

# Core Java Exam

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## 1. Question Set

### Core Java Programming - 1 Hour Question Paper

This question paper is divided into two sections: Objective Exercise and Coding Exercise. Answer all the questions.

### 1.1. Section 1: Objective Exercise (20 Marks)

#### Question 1: Overloading in Java

Which of the following is true about method overloading?

1. Methods must have the same name and same parameter types.
2. Methods must have the same name but different return types.
3. Methods must have the same name but different parameter lists.
4. Methods must have the same return type and different access modifiers.

▼ *Click Here For Answer*

The answer is **C**

#### Question 2: Method Overriding

Which keyword is used to prevent a method from being overridden?

1. static
2. final
3. private
4. abstract

▼ *Click Here For Answer*

The answer is **B**

#### Question 3: Inheritance in Java

Which of the following statements is true about inheritance?

1. Java supports multiple inheritance through classes.
2. A subclass can inherit private members of the superclass.
3. Interfaces can extend multiple interfaces.
4. A class can extend more than one class at a time.

▼ *Click Here For Answer*

The answer is C

#### Question 4: Java Collections

Which of the following classes implements the List interface?

1. HashSet
2. LinkedList
3. TreeMap
4. HashMap

▼ *Click Here For Answer*

The answer is B

#### Question 5: Exception Handling

Which of the following is not a checked exception in Java?

1. IOException
2. SQLException
3. NullPointerException
4. ClassNotFoundException

▼ *Click Here For Answer*

The answer is C

## 1.2. Section 2: Coding Exercise (30 Marks)

#### Question 6: Method Overloading

Write a Java program to demonstrate method overloading by creating two `add` methods, one that adds two integers and another that adds two double values.

#### Question 7: Method Overriding and Inheritance

Create a superclass named `Animal` with a method `sound()`. Create a subclass named `Dog` that overrides the `sound()` method to print "Bark". Test the program by calling the `sound()` method on an object of the `Dog` class.

#### Question 8: Java Collections

Write a program to create a list of integers using `ArrayList`, add five integers to it, and then print all the elements in the list.

### **Question 9: Exception Handling**

Write a program that accepts two integers from the user and divides them. Handle any `ArithmeticException` that may occur due to division by zero, and print an appropriate message.