**Name**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Year & Block**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Score**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Written Quiz 1**

## Part I: Multiple Choice

1. The main benefit of using inheritance in programming is:  
   A) Writing more code  
   B) Reusing and organizing code better  
   C) Increasing program speed  
   D) Avoiding compilation errors
2. Another term for the base class in inheritance is:  
   A) Subclass  
   B) Parent class  
   C) Derived class  
   D) Interface
3. When a child class redefines a method that already exists in its parent, this is called:  
   A) Method overloading  
   B) Method overriding  
   C) Data hiding  
   D) Encapsulation
4. Which PHP keyword is used by a child class to call a method from its parent?  
   A) super::  
   B) parent::  
   C) this::  
   D) base::
5. If a class inherits from another child class, the type of inheritance is:  
   A) Single inheritance  
   B) Multi-level inheritance  
   C) Hierarchical inheritance  
   D) Multiple inheritance
6. The concept of “one interface but many implementations” in OOP is known as:  
   A) Abstraction  
   B) Polymorphism  
   C) Inheritance  
   D) Composition
7. Which of the following BEST describes method overriding in PHP?  
   A) Writing multiple methods with the same name but different parameters  
   B) Redefining a parent class method inside a child class  
   C) Declaring a method as private inside the parent class  
   D) Using a method without creating an object
8. In late static binding, PHP decides which version of a static method to execute:  
   A) Before the program runs  
   B) While the program is running  
   C) During installation  
   D) When inheritance is declared
9. Which inheritance type is **not supported** in PHP?  
   A) Single inheritance  
   B) Multiple inheritance  
   C) Multi-level inheritance  
   D) Hierarchical inheritance
10. When a subclass extends the behavior of its parent, this is an example of:  
    A) Abstraction  
    B) Encapsulation  
    C) Inheritance  
    D) Polymorphism

## Part II: Identification (10 items) (x2)

1. The feature of OOP that enables code reuse by allowing classes to inherit properties and behaviors from other classes.
2. Another term used to refer to a child class in object-oriented programming.
3. The process of redefining a method from the parent class within the child class to change its behavior.
4. A type of inheritance where a single base class is extended by multiple child classes.
5. The OOP principle that allows objects to take on multiple forms depending on context.
6. Hides unnecessary details and shows only the essential features.
7. In PHP, the mechanism that determines which version of a static method to execute at runtime.
8. The general term for the class from which another class inherits.
9. A type of inheritance where a class inherits directly from one parent class only.
10. Only contains method signatures (no implementation or body).

Answer Key

Part I: Multiple Choice  
1. B  
2. B  
3. B  
4. B  
5. B  
6. B  
7. B  
8. B  
9. B  
10. B

Part II: Identification

1. INHERITANCE
2. DERIVED CLASS
3. METHOD OVERRIDING
4. HIERARCHICAL INHERITANCE
5. POLYMORPHISM
6. ABSTRACT
7. LATE STATIC BINDING
8. BASE CLASS, PARENT CLASS
9. SINGLE INHERITANCE
10. INTERFACES