The Car class and the Truck class both inherit characteristics from the vehicle class. However, the Truck class has methods that are unique to the Truck class, and the Car class has methods that are unique to the Car class. Methods belonging to these two classes can only be accessed by code that is in the same class.

What object-oriented programming term describes this concept?
- Data hiding
- Encapsulation
- Polymorphism
- Inheritance

Explain your answer in detail. Why?
A class hierarchy is defined as follows: SqlLogger inherits from DbLogger, DbLogger inherits from Logger. Logger defines a method named WriteToLog. DbLogger and SqlLogger override this method.

You declare a variable named appLogger of type DbLogger. You create an instance of SqlLogger and assign it to the appLogger variable. You then call the WriteToLog method.

What happens when you call this method?

- The WriteToLog method of the Logger class executes.
- An exception occurs.
- The WriteToLog method of the SqlLogger class executes.
- The WriteToLog method of the DbLogger class executes.

Explain your answer in detail. Why?

A class constructor has no parameters.

What type of constructor is this?

- Overridden
- Virtual
- Overloaded
- Default

Explain your answer in detail. Why?

What term best describes a procedure that is automatically invoked when an object is first instantiated?

- Constructor
- Routine
- Creator
- Method

Explain your answer in detail. Why?
The Car class and the Truck class both inherit the BlowHorn method from the Vehicle class, but when the BlowHorn method is invoked for an instance of the Truck class, the result is a loud blast. When the BlowHorn method is invoked for an instance of the Car class, the result is a soft beep.

Which object-oriented programming term describes this concept?
- Polymorphism
- Encapsulation
- Data hiding
- Inheritance

Explain your answer in detail. Why?

The Tricycle class and Bicycle class are both derived from the ToysWithWheels class. Both inherit the WheelNumber property from the ToysWithWheels class.

When an instance of the Tricycle class is instantiated, WheelNumber = 3.
When an instance of the Bicycle class is instantiated, WheelNumber = 2.

Which object-oriented programming term describes this concept?
- Polymorphism
- Encapsulation
- Inheritance
- Data hiding

Explain your answer in detail. Why?

A class member defined with the Private access modifier can only be accessed from:
- derived classes.
- classes defined in the same assembly.
- the class in which it is defined.
- other public classes.

Explain your answer in detail. Why?
Public Class Cat
    Public _color As String = "white"

    Public Sub New()
    End Sub

    Public Sub New(ByVal color As String)
        _color = color
    End Sub
End Class

Your application contains the Cat class shown in the exhibit.

You execute the following code:

Dim myKitten1 As New Cat()
Dim myKitten2 As New Cat("black")
Response.Write("One kitten is " & myKitten1._color & ".<br/>")
Response.Write("The other kitten is " & myKitten2._color & ".<br/>")

What text is displayed when the code has executed?

- One kitten is white.
  The other kitten is black.

- One kitten is black.
  The other kitten is white.

- One kitten is white.
  The other kitten is white.

- One kitten is black.
  The other kitten is black.

Explain your answer in detail. Why?