MCQ Exam Result

Result Summary

Field	Value
Test ID	40155
Total Questions	10
Marks Obtained	9
Attempted	10
Non-Attempted	0
Percentage	90.00%
Grade	Outstanding

Question Details

Q.No	Question	Your Answer	Correct Answer	Result	Status
1	How can we establish a HAS-A relationship in Java	By creating an object of one class inside another class	By creating an object of one class inside another class	Correct	Attempted
2	What does HAS-A relationship in Java signify	Composition or Aggregation	Composition or Aggregation	Correct	Attempted
3	Which of the following is an example of aggregation	A Person class containing an Address object where Address can exist independently.	A Person class containing an Address object where Address can exist independently.	Correct	Attempted
4	What is the difference between composition and aggregation in HAS-A relationship	Composition means the contained object cannot exist independently, while aggregation allows independent existence.	Composition means the contained object cannot exist independently, while aggregation allows independent existence.	Correct	Attempted

5	class Engine
	{
	  void start()
	  {
	    System.out.println("Engine started");
	  }
	}
	
	class Car
	{
	  private Engine engine;
		Engine started. Car started.	Engine started. Car started.	Correct	Attempted

Q.No	Question	Your Answer	Correct Answer	Result	Status

	``java
	    Car()
	    {
	        engine = new Engine();
	    }
	
	    void startCar()
	    {
	        engine.start();
	        System.out.println("Car started.");
	    }
	}
	public class CompositionExample
	{
	    public static void main(String[] args)
	    {
	        Car car = new Car();
	        car.startCar();
	    }
	}
	``				

6	Which of the following is a key benefit of using HAS-A relationship over IS-A relationship	It promotes code reusability without tight coupling.	It promotes code reusability without tight coupling.	Correct	Attempted

7	```java
	class Engine
	{
	    void start()
	    {
	        System.out.println(Engine started);
	    }
	}
	
	class Car
	{
	  Engine engine = new Engine();
	
	    void startCar()
	    {
	        engine.start();
	        System.out.println(Car started);
	    }
	}
	public class Test
	{
	    public static void main(String[] args)
	    {
	        Car car = new Car();
	        car.startCar();
	    }
	}
	``
	
	What type of HAS-A relationship does the Car class have with Engine
		A) Aggregation	B) Composition	Incorrect	Attempted

8	```java
	public class AggregationExample
	{
	    public static void main(String[] args)
	    {
	        Address addr = new Address("New York", "USA");
	        Student student = new Student("John Doe", addr);
	        student.displayStudent();
	    }
	}
	class Address
	{
	    String city, state;
	
	    Address(String city, String state)
	    {
	        this.city = city;
	        this.state = state;
	``
		Student: John Doe Address: New York, USA	Student: John Doe Address: New York, USA	Correct	Attempted

Q.No	Question	Your Answer	Correct Answer	Result	Status
| | ```
    }

    void displayAddress()
    {
        System.out.println(city + ","  + state);
    }
}

class Student
{
    String name;
    Address address;

    Student(String name, Address address)
    {
        this.name = name;
        this.address = address;
    }

    void displayStudent()
    {
        System.out.println("Student "  +
name);
        System.out.print("Address:" );
        address.displayAddress();
    }
}
``` | | | | |
| 9 | Which of the following statements about HAS-A relationship is correct | It is implemented using object references. | It is implemented using object references. | Correct | Attempted |
| 10 | How can we establish a HAS-A relationship in Java | By creating an object of one class inside another class | By creating an object of one class inside another class | Correct | Attempted |