Spring 2024-2025 CSSE 220

## CSSE 220 – Object-Oriented Software Development Rose-Hulman Institute of Technology

## Worksheet 13

Name	me (Print): Sect	ion:
1.	Select from the following: IS-A, HAS-A, DEPENDS-ON	
	<ol> <li>Dog implements Animal:</li> <li>Class Zoo has a field - List&lt; Animal &gt;:</li> <li>Class Car passes a method drive() from the class Drivable into it</li> <li>Dog extends Animal:</li> </ol>	s method:
2.	2. Inheritance is a mechanism when a automa methods of its by using the extends keyword	tically gains the fields and
3.	3. What is the name of the top most class in Java:	_
4.	1. Select the correct statements:	
	<ol> <li>A subclass does not inherit superclass private members</li> <li>A subclass inherits superclass private members</li> </ol>	
	3) A subclass inherits superclass constructors	
	4) A subclass can invoke superclass constrictors	
	5) A subclass can override public and protected superclass method	ods
	6) A subclass cannot override public and protected superclass m	ethods
5.	5. Invoke superclass:	
	1) You have a superclass method drive():	
2) You have a superclass constructor Vehicle(int year, String model):		del):

Page 1

CSSE 220 Spring 2024-2025

6. Write the output for each method below:

```
1 class Animal {
2
      void move() { System.out.println("Animal is moving."); }
3
      void eat() { System.out.println("Animal is eating."); }
4 }
5
6 class Dog extends Animal {
7
     @Override void move()
      { System.out.println("Dog is running."); }
9
      void bark() { System.out.println("Dog is barking."); }
10 }
11
12 public class Geeks {
      public static void main(String[] args)
13
14
15
          Dog d = new Dog();
          d.move(); // Output 1 : _____
16
          d.eat(); // Output 2 : _____
17
18
          d.bark(); // Output 3 : _____
19
      }
20 }
```

Page 2