Quiz 2 - Lesson - 5 & 6 [20 Points] Name: MANAGEN Student id : 200 Date: 9/15/17 Circle the right choice. (Each 1 Point) 1. What will be happen when the following code is compiled and the main method of the QuizQuesion class is run? Circle the right choice. public interface Compute { public class Impl implements Compute{ default int compute(int x, int y) { return x + y; public class QuizQuesion { public static void main(String args[]){ Impl obj = new Impl(); System.out.println(obj.compute(5, 5)); C Outputs 10 to the console A. Compiler error B. Runtime error 2. Which one of the given choice is related with user-input events in MVC – design Pattern? Controller b) View d) None Model is a visual tool that comes with JavaFX. (c) SceneBuilder a) JFC b) AWT d) None 4. What is the output of the given program? Circle the right choice. [1 Point] public class ShadowTest { public int x = 0; class FirstLevel { public int x = 1; void methodInFirstLevel(int x) { System.out.println(x + " " + this.x); public static void main(String[] args) { ShadowTest st = new ShadowTest(); ShadowTest.FirstLevel fl = st.new FirstLevel(); fl.methodInFirstLevel(23);

23 1

B. 23 23

A. 23 0

D. 1 1

```
5. What is the output of the following code?
           interface i1 {
                  default int show() {
                          return 100;
           abstract class A {
                  public int show() {
                         return 50;
          public class TestClass extends A implements i1 {
                 public static void main(String args[]) {
                         TestClass t = new TestClass();
                         System.out.println(t.show());
         a) 100
                                         c) Run time Error
                                                               d) Compile time error
 6. What is the output of the given code?
 public class Person {
        private String fname;
        private String Iname;
        public Person(String fname, String lname) {
                this.fname = fname;
                this.lname = lname;
public class Test {
       public static void main(String[] args) {
                       Person p1 = new Person("Renuka", "Mohanraj");
                       Person p2 = new Person("Renuka", "Mohanraj");
                       System.out.println(p1.equals(p2));
                                        false
           a. true
```

- II. Say true or false for the given statements. Just put T or F as an answer in the dash.

 (Each 1 Point)
- 7. A member inner class cannot access the private field and private method of its enclosing class (outer class). F

- 8. Java 8 default methods can be override by the class which implements the interface. ______
- 9. Reflection allows a program to inspect the contents of arbitrary objects at run time. ________ 10. "IS-A" a relationship states that every object of the sub class is an object of the super

class. This statement is _______

III. Answer the following questions

11. Find which line produces the error and write the reason why, say how to fix? [3 Points]

```
abstract class AProduct{
                                              class Bicycle extends AProduct
 private String productid;
 public void setProductId (String id){
                                               public double getPrice(){
  productid=id;
                                                return 230.45;
 public String getProductId (){
 return productid;
                                             class Test {
                                              public static void main(String[] args) {
  public abstract double getPrice();
                                               AProduct myProduct = new AProduct();
                                                Bicycle myCycle = new Bicycle();
```

- a. Write which line produces an error in the above code. AProduct myProduct = new AProduct ();
- b. Write the reason for the Error. abstract classes cannot be instantiated.
- c. How do you fix the error? Write your solution. AProduct my Product = new Bicycle (); eliminate that error line.
- Find which line produces the error and write the reason why, say how to fix? [3 Points] 12.

```
public class First {
                                                   public class Second extends First {
       private String name;
                                                          private int ec;
       private int score;
                                                          Second(String name, int score, int ec) {
       First(String name, int score) {
                                                              b this.ec = ec;
              this.name = name;
                                                                super(name, score);
              this.score = score;
```

into change the Order

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a. Write which line produces an error in the above code. super (name, score); or this.ec = ec;

b. Write the reason for the Error.

Because the super keymord which invokes the super Class in the Sub Class construit constituctor has to be the first line in the sub class constructor.

c. How do you fix the error? Write your solution.

Super (name, score); i.e. Switch these two lines

13. Comparison of Actual Classes, Abstract Classes and Interfaces with the given specific Property? Just fill the table cells with words "Allowed" or "Not Allowed". (Please don't use

Property? Just fill the table cells with words "Allowed" or "Not Allowed". (Please don't use

Aspects	Actual Class	Abstract class	Pre-Java 8 Interface	Java 8 Interface
Inclusion of constructor(s)	Allowed	Allowed	Not Attorned	Not Allowed
Instances (Objects) of these aspects can be created directly is allowed or not.	Allowed	Not-Allowed	Not Allowed	NotAllowed
Inclusion of abstract methods	Not Allowed	Allowed	Altowed	Allowed
Inclusion of static methods	Allowed	Allowed	Not Allowed	Allowed