

## United International University (UIU)

## **Dept. of Computer Science & Engineering (CSE)**

Class Test II: Trimester: Summer - 2021

Course Code: CSE 1115, Course Title: Object-Oriented Programming, Sec: B

Total Marks: 10 Duration: 30 Minutes

Answer all questions. Figures are in the right-hand margin indicates full marks.

```
Write the output of the following code:
                                                                                                                     [5]
 public class Zoo {
                                                          class Magpie extends Bird{
    public static void main(String[] args) {
                                                            Magpie(){
      Animal a = new Animal();
                                                              System.out.println("A magpie is created.");
      Bird b = new Magpie();
      Magpie c = (Magpie) b;
                                                            void fly(){
                                                              System.out.println("Magpie is flying...");
      a.fly();
      b.fly();
                                                            void fly(int speed){
      ((Magpie)b).fly(15);
                                                              System.out.println( "Magpie is flying at speed: "
      c.fly();
                                                                 + speed);
      a.eat();
                                                            void eat(){
      b.eat();
                                                              System.out.println( "Magpie is eating.");
      c.eat();
                                                         class Animal {
 class Bird extends Animal {
    Bird(){
                                                            Animal() {
      System.out.println("A bird is created.");
                                                              System.out.println( "An animal is created.");
                                                            void fly(){
    void fly(){
      System.out.println("Flying...");
                                                              System.out.println("Don't know if I can fly!");
                                                            void eat(){
                                                              System.out.println("Eating...");
Consider the following FruitShop class. Now, write a class Fruit in such a way that
                                                                                                                     [5]
FruitShop class will give expected output as shown below.
 Class FruitShop
                                                            Output
 public class FruitShop {
                                                            Fruit Details:
    public static void main(String[] args) {
                                                           Name: Apple
      Fruit fruit1 = new Fruit("Apple", 3.5, 110);
                                                            Weight: 3.5kg
      Fruit fruit2 = new Fruit("Mango", 5, 90);
                                                           Price per kg: 100.0
                                                            Total price: 350.0
      fruit1.reducePricePerKG(10);
      fruit2.increasePricePerKG(20);
                                                           Fruit Details:
                                                           Name: Mango
      fruit1.printDetails();
                                                            Weight: 5.0kg
                                                           Price per kg: 110.0
      fruit2.printDetails();
                                                            Total price: 550.0
```