

Class Test 02(A): CSI 203 – Object Oriented Programming, Fall 2019
Total Marks: 20, Time: 30 minutes

Name: _____

ID: _____

1. What would be the output of the code below?

[6]

```
public class Monkey {
    String breed;
    float weight, height;
    static String animalClass = "Vertebrates";

    public Monkey(String breed, float weight, float height) {
        this.breed = breed;
        this.weight = weight;
        this.height = height;
    }

    public void display(){
        System.out.println(breed+":"+weight+":"+height+":"+animalClass);
    }
}

public class TestMonkey {
    public static void main(String[] a){
        Monkey m1 = new Monkey("Pigmy", 0.25f, .42f );
        Monkey m2 = new Monkey("Mandrill", 77.0f, 3.0f );
        m1.display();
        m2.display();
        funMonkey(m1, m2);
        m1.display();
        m2.display();
    }

    public static void funMonkey(Monkey m1, Monkey m2){
        m1 = m2;
        m1.breed = "Japanese macaque";
    }
}
```

Output:

2. What would be the output of the code below?

[7]

```
public class TestString {

    public static void main(String[] args) {
```

```

String input = "Object Oriented programming is a programming
paradigm based on the concept of objects, which can contain data, and code.";
String[] words = input.split(" "); // Splitting using space
String output = words[0];
char initial = output.charAt(0); // first character of the word

for(int i =1; i<words.length; i++){
    if(words[i].charAt(0) != initial){
        output = output + " "+words[i];
        initial = words[i].charAt(0);
    }
}

System.out.println(output);
}

```

Output:

3. Find the error the code below and rewrite the fixed. Do not delete any line.

[7]

Code with error	Fixed code
<pre> -----Game.java ----- package ct2; public class Game { String name; private int score; public Game(String name, int score) { this.name = name; this.score = score; } void increaseScore(int a){ score += a; } public void display(){ System.out.println(name + ":" + score); } } -----SportsGala.java----- package ct2.match; public class SportsGala { public static void main(String[] a){ Game g = new Game("Super Mario", 10); g.increaseScore(2); g.display(); g.increaseScore(4); System.out.println(g.score); } } </pre>	

Class Test 02(B): CSI 203 – Object Oriented Programming, Fall 2019
Total Marks: 20, Time: 30 minutes

Name:

ID:

1. What would be the output of the code below?

[6]

```
public class Monkey {
    String breed;
    float weight, height;
    static String animalClass = "Vertebrates";

    public Monkey(String breed, float weight, float height) {
        this.breed = breed;
        this.weight = weight;
        this.height = height;
    }

    public void display(){
        System.out.println(breed+":"+weight+":"+height+":"+animalClass);
    }
}

public class TestMonkey {
    public static void main(String[] a){
        Monkey m1 = new Monkey("Pigmy", 0.25f, .42f );
        Monkey m2 = new Monkey("Mandrill", 77.0f, 3.0f );
        m1.display();
        m2.display();
        swap(m1,m2);
        m1.display();
        m2.display();
    }

    public static void swap(Monkey m1, Monkey m2){
        Monkey m = m1;
        m1 = m2;
        m2 = m;
        m2.animalClass = "Mammal";
        m1 = new Monkey("Ape", 25.0f, 2.2f);
    }
}
```

Output:

2. Find the error the code below and rewrite the fixed. Do not delete any line.

[7]

<u>Code with error</u>	<u>Fixed code</u>
<pre>public class Employee { String name, id; double salary; static String companyName = "UAP"; public Employee(String n, String i, double s) { this.name = n; this.id = i; this.salary = s; } public void display(){ System.out.println(name+":"+id":"+sal ary+":"+companyName); } public static void update(){ salary += 100; display(); } }</pre>	

3. What would be the output of the code below?

[7]

```
public class TestString {

    public static void main(String[] args) {
        String input ="Object Oriented programming is a programming
paradigm based on the concept of objects, which can contain data, and code.";
        String[] words = input.split(" "); // Splitting using space
        String output = "";
        String temp = words[0];
        char initial = temp.charAt(0); // first character of the word

        for(int i =1; i<words.length; i++){
            if(words[i].charAt(0) == initial){
                output = output + " "+temp+ " "+words[i];
            }
            else{
                initial = words[i].charAt(0);
                temp = words[i];
            }
        }

        System.out.println(output);
    }
}
```

Output: