1. Below code is showing compile time error. Can you suggest the corrections?   4

```
class Test {
   public static void main(String args[]) {
       System.out.println(fun());
   }
   static int fun() {
       static int x= 0;
       return ++x;
   }
}
```

2. Complete the "class ObjectReturn" so that the output of the following Java code is 2 and 12.   4

```
class ObjectReturn
{
    int a;

    -----------------
    -----------------
    -----------------
}

public class Test
{
    public static void main(String args[])
    {
        ObjectReturn ob1 = new ObjectReturn(2);
        ObjectReturn ob2;

        ob2 = ob1.incrByTen();

        System.out.println("ob1.a: " + ob1.a);
        System.out.println("ob2.a: " + ob2.a);
    }
}
```

3. Complete the following Java code to get the output.   4

```
class Demo{
   int  value1;
   int  value2;

   -----------------
   -----------------
   -----------------
```

```java
  public void display(){
      System.out.println("Value1 === "+value1);
      System.out.println("Value2 === "+value2);
  }
  public static void main(String args[]){

    Demo d2 = new Demo(30);
    Demo d3 = new Demo(30,40);
    d2.display();
    d3.display();
  }
}
```

4. Complete the Test constructor to get output 10 and 20.   4


```java
class Test
{
    int a;
    int b;

    Test(int a, int b)
    {
        -------------
        -------------
        -------------
    }

    void display()
    {
        //Displaying value of variables a and b
        System.out.println("a = " + a + "  b = " + b);
    }

    public static void main(String[] args)
    {
        Test object = new Test(10, 20);
        object.display();
    }
}
```


5. Can we overload static methods in Java? Explain.   4