

Examiner: Mohamed Mabrouk

Duration: 45 Minutes Number of pages: 2

Academic year: 2020 - 2021

Group: 2

nswer the following questions:	(Total points: 100)
1 st Question marks: 50	
Choose the best answer:	
1- Which of those method types CANNOT be da. Constructorsc. Private methods	b. Static methods d. Constructors and static methods
2- If a class is declared abstract then it can contaa. Concrete methods onlyc. Constructors only	b. Abstract methods only d. all of them
3- Which of the following is correct about parana. main cannot take parametersc. It takes as many parameters as it needs	b. It can take a single parameter d. It takes an array of parameters
4- Garbage collector takes care of objects that are not needed anymore and will remove them from memory. State True or False.?	
a. True c. May be	b. False d. Can't say
5- Strings are reference (non-primitive) type. State. True c. May be	ate True or False.? b. False d. Can't say
2 nd Question	

What is the expected output of the following program?

```
abstract class Shape {
    public abstract void drawShape();
}

class Rectangle extends Shape {
    public void drawShape() {
        System.out.println("Drawing rectangle");
    }
}
```

```
class Circle extends Shape{
    public void drawShape(){
        System.out.println("Drawing cicrle");
    }

    public static void main(String[] args){
        Shape[] shapes = new Shape[2];
        shapes[0] = new Circle();
        shapes[1] = new Rectangle();
        for (Shape shape:shapes) {
            shape.drawShape();
        }
    }
}
```

Drawing circle
Drawing rectangle

With My Best Regards. Mohamed Mabrouk