Slip 19

10 Marks:

```java
Copy code
import java.io.*;

class Staff {
    String name;
    String address;

    public Staff(String name, String address) {
        this.name = name;
        this.address = address;
    }

    public void display() {
        System.out.println("Name: " + name);
        System.out.println("Address: " + address);
    }
}

class OfficeStaff extends Staff {
    String department;

    public OfficeStaff(String name, String address, String department) {
        super(name, address);
        this.department = department;
    }

    public void display() {
        super.display();
        System.out.println("Department: " + department);
    }
}

public class Main {
    public static void main(String[] args) {
        OfficeStaff staff = new OfficeStaff("John Doe", "123 Main St",
"Finance");
        staff.display();
    }
}
```

20 Marks:

```java
Copy code
import java.io.*;

abstract class Staff {
    protected String name;
    protected String address;
```

```java
    public Staff(String name, String address) {
        this.name = name;
        this.address = address;
    }

    public abstract void display();
}

class FullTimeStaff extends Staff {
    private String department;
    private double salary;

    public FullTimeStaff(String name, String address, String department,
double salary) {
        super(name, address);
        this.department = department;
        this.salary = salary;
    }

    @Override
    public void display() {
        System.out.println("Full Time Staff:");
        System.out.println("Name: " + name);
        System.out.println("Address: " + address);
        System.out.println("Department: " + department);
        System.out.println("Salary: " + salary);
    }
}

class PartTimeStaff extends Staff {
    private int hoursWorked;
    private double ratePerHour;

    public PartTimeStaff(String name, String address, int hoursWorked, double
ratePerHour) {
        super(name, address);
        this.hoursWorked = hoursWorked;
        this.ratePerHour = ratePerHour;
    }

    @Override
    public void display() {
        System.out.println("Part Time Staff:");
        System.out.println("Name: " + name);
        System.out.println("Address: " + address);
        System.out.println("Hours Worked: " + hoursWorked);
        System.out.println("Rate per Hour: " + ratePerHour);
    }
}

public class Main {
    public static void main(String[] args) {
        FullTimeStaff fullTime = new FullTimeStaff("Jane Smith", "456 Oak
St", "HR", 50000);
        fullTime.display();
```

```
        PartTimeStaff partTime = new PartTimeStaff("Mark Johnson", "789 Pine
St", 20, 15);
        partTime.display();
    }
}
```