Total Marks: 30

Time Limit: 25 minutes + 10 minutes for submission

Define necessary classes with proper abstraction[Concrete/Abstract/Interface] and
make method implementations common wherever is applicable so that the following
output of the right side can be generated from the codes of the left side and mention
the reason behind your choice of class types[Concrete/Abstract/Interface] in brief.
[No need to write the following codes in the answer script. Just write the solution part.]

[15]

```
oublic class Final {
   public static void main(String[] args) {
       Human neurologist = new Doctor();
       Human cs1 = new CSEngineer();
       Human civil1 = new CivilEngineer();
       Engineer cs2 = new CSEngineer();
       Engineer civil2 = new CivilEngineer();
       neurologist.study();
       cs1.study();
       civil1.study();
       cs2.study();
       civil2.study();
       System.out.println("");
       neurologist.work();
       cs1.work();
       civil1.work();
       cs2.work();
       civil2.work();
```

Studying Human Anatomy Solving ODE/PDE Solving ODE/PDE Solving ODE/PDE Solving ODE/PDE

Dissecting Human Body Coding in Java Designing Structures Coding in Java Designing Structures Write a concrete class named "StudentAccount", inheriting both "BankAccount" and
"Taxable" from the following code. Define constructors and methods for the class
properly.

```
public abstract class BankAccount {
    public String id;
    public double balance;
    public BankAccount(String id) {
        this.id = id;
    }
    public abstract double calculateInterest();
}

public interface Taxable {
    void taxCharged(double amount);
}
```