

Object oriented programming using JAVA - LAB

Assignment 5

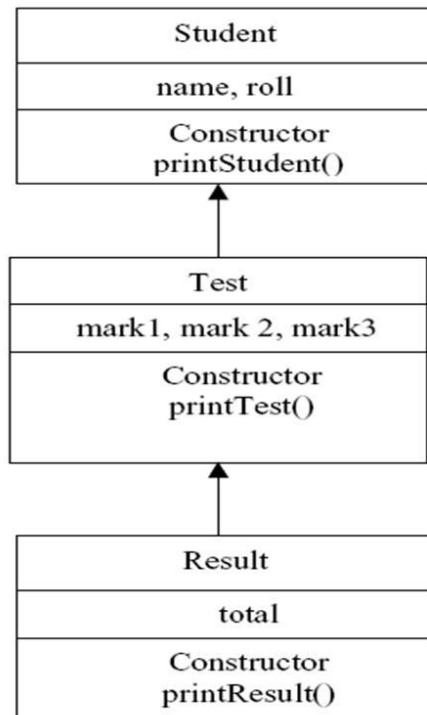
Total mark – 30

Topic: **Inheritance**

Sl. No.	Question
1	<p>Design following class hierarchies.</p> <pre>classDiagram class Employee { -empName (String) -empID (int) +Default constructor +Parameterised constructor +inputData() +displayData() } class Manager { -basicSalary (Double) -DA (byte) -HRA (byte) +Default constructor +Parameterised constructor +getInfo() +calSal() +printInfo() } Employee < -- Manager</pre> <p>The diagram shows two classes: Employee and Manager. Employee is the superclass with attributes -empName (String) and -empID (int), and methods +Default constructor, +Parameterised constructor, +inputData(), and +displayData(). Manager is the subclass with attributes -basicSalary (Double), -DA (byte), and -HRA (byte), and methods +Default constructor, +Parameterised constructor, +getInfo(), +calSal(), and +printInfo(). An inheritance arrow points from Manager to Employee.</p> <p>Note that the items with a minus sign (-) indicate private members and items with a plus sign (+) indicate public members. Test the methods of both the classes by creating objects in the main method of another class.</p>

2

Design following class hierarchies.



Data members are private, constructors and methods are public. Test the methods of all classes by creating objects of Result class in the main method of another class.

3

Modify the above program to demonstrate the method overriding.