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| **CSE1206 : Object Oriented Programming Lab Fall 2018** | **Set- B** |

**Online: 3 Date: 7 February, 2019 Group: C1 Time: 25 minutes**

**ID:**

**Marks**

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| 1. Create a Java Project Named ‘**TestCube**’. Inside this project (folder) create a new class named ‘**Cube**’. Inside the **Cube** class create 3 private variables:   cubeID (int), cubeColor (String), edge (double). Create necessary constructors. | 3 |
| 1. Inside the Cube Class create two overloaded methods:   public double getArea(Cube ara[], String findByID) || Search By cubeID  public double getArea(Cube ara[], String findByColor) || Search By cubeColor  These methods search for the Cube object from the Cube array using the search type given in the 2nd parameter of the method. If object found then calculates the area of the Cube and returns it, otherwise returns 0.0  Area of Cube = 6 x Edge x Edge | 2+2 |
| 1. Inside the TestCube class create an array of Class Cube of size 3.   Assign values as follows:  201, Yellow, 6  202, Orange, 8.5  203, Purple, 4.7  Call the two methods of Cube class by creating a new object.  For the 1st Method, search using value 205  and for the 2nd one, search using “Orange”  **\*you’ll get extra marks if you can take the search values as user input.** | 3 |

**Total: 10**

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| Sample Output |
| Area of Cube Searched by ID 205 is 0.0  Area of Cube Searched by Color Orange is 433.5 |