**BRAC University (Department of Computer Science and Engineering)**

**CSE 470 (Software Engineering) | Summer 2023**

**Quiz 4 (Set B)**

**Full Marks: 10 Duration: 20 minutes**

**Name: Student ID: Section:**

1. Suppose, you want to implement a single-instance class for the easy management of your hotel so that no complications arise regrading use of shared resources like car rentals, banquet hall bookings, room bookings etc. Identify the design pattern needed to implement such a system. Complete the given code below. **[ 6 marks ]**

public class HotelManage{

// Add your code here

public void getServices(){

// All shared services, no need to write anything here

}

}

public int main(){

// Create an instance of HotelManage class and call the getServices() method

}

1. Write short notes on (i) Unit testing (ii) Integration testing (iii) Stress testing (iv) Load Testing

**[ 4 marks ]**