

Department of Computer Science and Engineering
College of Engineering – Guindy Campus, Anna University

M.E – Computer Science and Engineering

CP5111 – Networking Laboratory

Lab Assessment

Date: 08.04.2022

Time: 2 hours

Marks: 25

Answer all questions

1. Implement a client-server program for Student Record Management System using Structures. [6 marks]
 - a. Passing data via structures. [2 marks]
 - b. The client must perform the following operations:
 - Store a new student record in the server [2 marks]
 - Search a student record from the server. [1 mark]
 - Update the student record in the server. [2 marks]
 - c. The server must perform the following operations:
 - Display the student record. [1 mark].
 - Retrieve the record requested by the client if found, else prompt that record is not available. [1 mark].

Structure:

```
struct
{
    int roll_no;
    char name[20];
    int mark;
}student;
```

2. Create a wireless mobile ad-hoc network environment using NS3 and simulate the following routing protocols. [1 mark]
 - i. DSDV [2 marks]
 - ii. DSR [2 marks]
 - iii. OLSR [2 marks]
 - iv. Compare the performance of the protocols with relevant plots [3 marks]