

National Institute of Technology Calicut
Department of Computer Science and Engineering

Winter Semester 2020 – 2021
CS3093D: Networks Laboratory

Evaluation Question for Experiment – 07

[Total: 10 Marks]

- 1) Access <http://www.nitc.ac.in> and <https://minerva.nitc.ac.in/> from your system. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received for accessing both the web links? Provide screenshot. **[2 Marks]**
- 2) Consider the pcap file, File001.pcap. The file contains captured packets sent over the network. It is noticed the system has made a connection to an unsecured host system and the user has sent his credentials over plaintext. Investigate File001.pcap to unearth the login credentials.
 - a. Indicate the IP addresses, Source and Destination, of the communicating end systems in which the login credentials are found.
 - b. Determine the protocol over which the user credentials are sent as plaintext.
 - c. What are the login credentials?

[3 Marks]

- 3) Upgrade the TCP server program and build a Very Simple Web Server (VSWS) that displays

Welcome to the Dept. of CSE!

when the web server is accessed from the web browser (client). Let the VSWS listen on port 8080 in the localhost.

VSWS also contains a HTML file named *mypage.html* for which the contents are:

```
<html>
<h1> Welcome to Networks Lab </h1>
You are attending evaluation question.
</html>
```

Upon accessing `http://localhost:8080/mypage.html` the HTML page should be visible. For any other access, it should return with “404 error: File not found” message. **[5 Marks]**

Instructions

- For Q. No. 1, you may provide necessary screenshot that answers the question.
- For Q. No. 2, you may create separate text file and include your answers.
- For Q. No. 3, you may attach the source code and a README file for executing the source code.
- Compress the entire folder that contains all the files and upload in Eduserver with *FirstName_RollNo.rar*.