National University of Computer and Emerging Sciences, Lahore Campus

Computer Networks (Code: CS3001)

Assignment 1 [Section BCS 5C-5D-5E] Fall 2023

Due Date: Sec E: Sep 6, 2023 Sec C and Sec D: Sep 7, 2023

Time: During Class **Marks: 60**

Please note the following:

1. No exceptions to the above date and time will be allowed. Inability to submit the assignment by the required time will result in zero marks.
2. To ensure self-completion of assignments and discourage plagiarism, the instructor or the relevant TA may randomly contact you and ask for an explanation of your answers. Where plagiarism and/or cheating is evident, you will be referred to the departmental disciplinary committee. In extreme cases of plagiarism, an F may be awarded immediately with further referral to university disciplinary committee.
3. All solutions must be **handwritten.**
4. **Assignment Solution Submission:** Each student will submit the hard copy of the handwritten assignment's solution to the Instructor / TA directly in case classes are conducted **on the campus (The current scenario)**. Otherwise, in the case of **online classes (exceptional scenario)**, handwritten assignments will be scanned into one PDF document and submitted online via **Google Classroom**. The file or folder name should contain your roll number and assignment number, i.e. **(##L-####_A#**). If you are making multiple submissions, write "Updated" at the end, i.e. (##L-####_A#_Updated).

Use the following text for completion of this part of the assignment:

Computer Networking - A Top-Down Approach 8th Edition by Kurose & Ross.
Chapter 1 Exercise Questions

Part 1: Answer the following review questions (Chapter 1 Review Questions). Every Question has equal marks. **(8 x 3=24 marks)**

Review questions: R4, R8, R11, R13, R18, R20, R24, R25 [CLO 1]

Part 2: Solve the following problems from the book Chapter 1 Problems. Every Question has equal marks except the last question that is of 10 marks i.e. **(6 x6=36 marks)**

Problems: P4, P5, P6, P8, P10, P12 [CLO 1]

Note: There is no need to simplify mathematical formulation(s).