Quiz: 03   **Total Marks: 10**
Summer 2025   **Time: 20 minutes**

Name:	ID:

Q1. At a given moment of data transferring, the client sent the C1 segment with sequence number 1001 and acknowledgment number 4001. The data sent through C1, C2, C3, S1, S2, S3, S4 are 105, 179, 211, 320, 120, 310 and 450 Bytes respectively.

a) Calculate the sequence number and acknowledgment number of the S4 segment. [4 Marks]

   ISN client=1001
   ISN server=4001

   Seq=4001+320+120+310
   Ack=1001+105+179+211 =

b) Calculate the acknowledgment number of the ACK-1 segment. [2 Marks]

   Ack = 4001+320 =

c) Calculate the acknowledgment number of the ACK-2 segment. [2 Marks]

   Same as ACK-1:
   Ack = 4001+320 =

d) Calculate the acknowledgment number of the ACK-3 segment if the Go-Back-N sliding window protocol is used. [2 Marks]

   Ack=4001+320+120