BRAC UNIVERSITY
Department of Computer Science and Engineering
CSE421: Computer Networking

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 1039 and acknowledgment number 8335. The data sent through C1, C2, C3, S1, S2, S3, S4 are 125, 199, 304, 330, 150, 210 and 450 Bytes respectively.

a) Calculate the sequence number and acknowledgment number of the S3 segment. [4 Marks]

ISN client=1039
ISN server=8335

Seq=8335+330+150
Ack=1039+125+199+304 =

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

Ack = 8335+330 =

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

Same as ACK-1:
Ack = 8335+330 =

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

Ack=8335+330+150+210+450

Client   Server

C1
C2
C3
S1
S2
S3
ACK-1
S4
ACK-2
S2
ACK-3