

25-Summer-CSE421-1

Quiz 3-B

Marks: 15

Time: 20 mins

Name: —

ID: }

Serial:

After the TCP handshaking, the client with **RWND=10000 bytes** and the server with **RWND=20000 bytes** transferred the following segments. Also given, the Seq and Ack values of the Ack-3 segment of the client is **9875** and **10698** respectively.

**\*\*Segments C1 and S1 are the first data segments exchanged**

From	To	Segment Name	Data Size (bytes)	Lost
Client	Server	C1	546	No
Server	Client	S1	786	No
Server	Client	S2	685	Yes
Server	Client	S3	256	No
Client	Server	Ack-1		No
Server	Client	S2	685	No
Server	Client	S3	256	No
Client	Server	Ack-2 + FIN		No
Server	Client	Ack + FIN		No
Client	Server	Ack-3		No

1. Identify if the connection is using **go-back-n** or **selective-repeat** if the rwnd of the Ack-1 segment is **9214** [4]
2. **Calculate** the ISN of the server. [4]
3. **Calculate** the sequence and acknowledgement number of the client's C1 segment. [4]
4. What's the HLEN value (in bits) if 8 bytes are padded. [3]