

ACN CLASS QUIZ-2

EVEN SEAT NUMBERS

1. Explain the mechanism of TCP handshaking.
2. Consider a reliable data transfer protocol that uses only negative acknowledgments. Suppose the sender sends data n only infrequently. Would a NAK-only protocol be preferable to a protocol that uses ACKs? Why?

ODD SEAT NUMBERS

1. Give any 3 different types of flags used in TCP handshaking and also tell what are they used for.
2. Consider a reliable data transfer protocol that uses only negative acknowledgments. Suppose a sender has a lot of data to send and the end-to-end connection experiences few losses. In this case, would a NAK-only protocol be preferable to a protocol that uses ACKs? Why?

COMMON QUESTIONS

3. Explain the congestion control mechanism in TCP.
4. Consider transferring an enormous file of **L** bytes from Host A to Host B. Assume an MSS of **536 bytes**. What is the maximum value of L such that TCP sequence numbers are not exhausted? Recall that the TCP sequence number field has **4 bytes**. Please write your assumptions, explanations and calculations clearly in the answer.