

COMPUTER NETWORK

Name - Ashutosh Soni

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ans:-

(a), selective repeat protocol makes more efficient use of bandwidth because in selective repeat protocol only selective packets will be resend which are not acknowledged where in case of Go-back-N all the packets present in the window will be resend.

(b), In a NAK only protocol, the loss of packet x is only detected by the receiver, when packet $x+l$ is received. That is, the receiver receives $x-1$ and then $x+l$, only when $x+l$ is received, does the receiver realizes that x was missed. If there is a long delay between the transmission of x and the transmission of $x+l$, then it will be a long time until x can be recovered, under a NAK only protocol.

On the other hand, if data is being sent often, then recovery under a NAK-only scheme, could happen quickly. Moreover if errors are infrequent, then NAK's are only occasionally sent, (when needed) & ACK are never sent. a significant reduction in feedback, in the NAK-only case over the ACK only case.