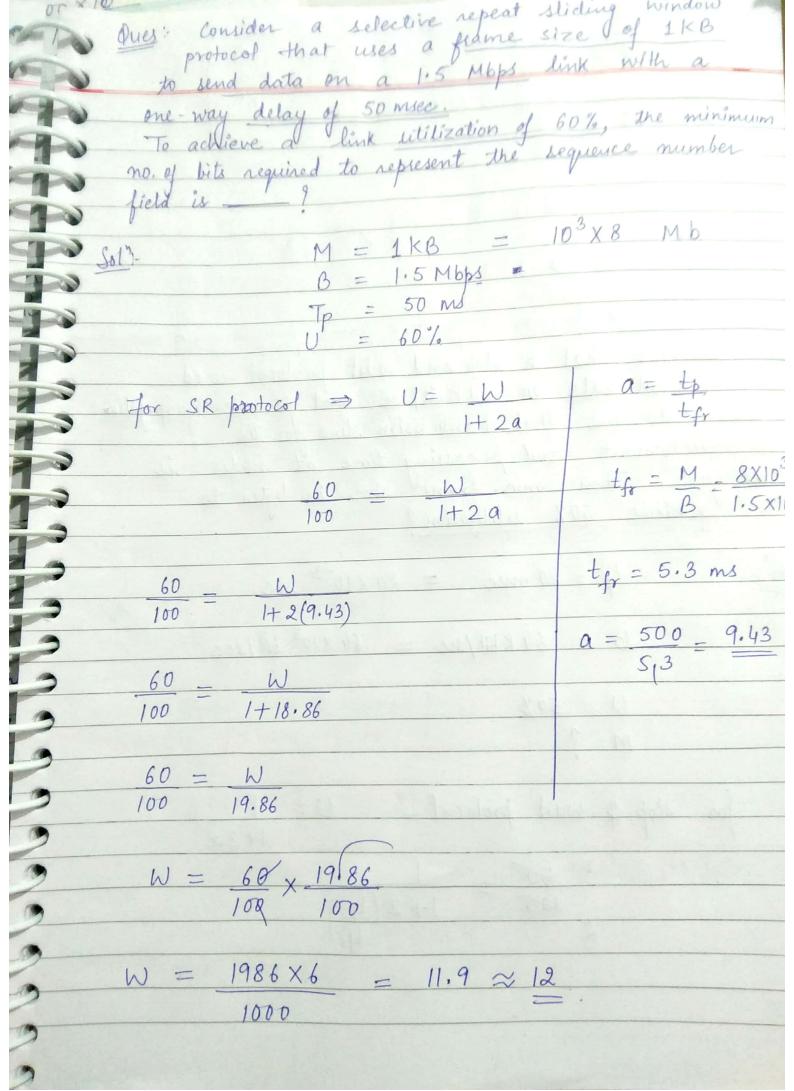
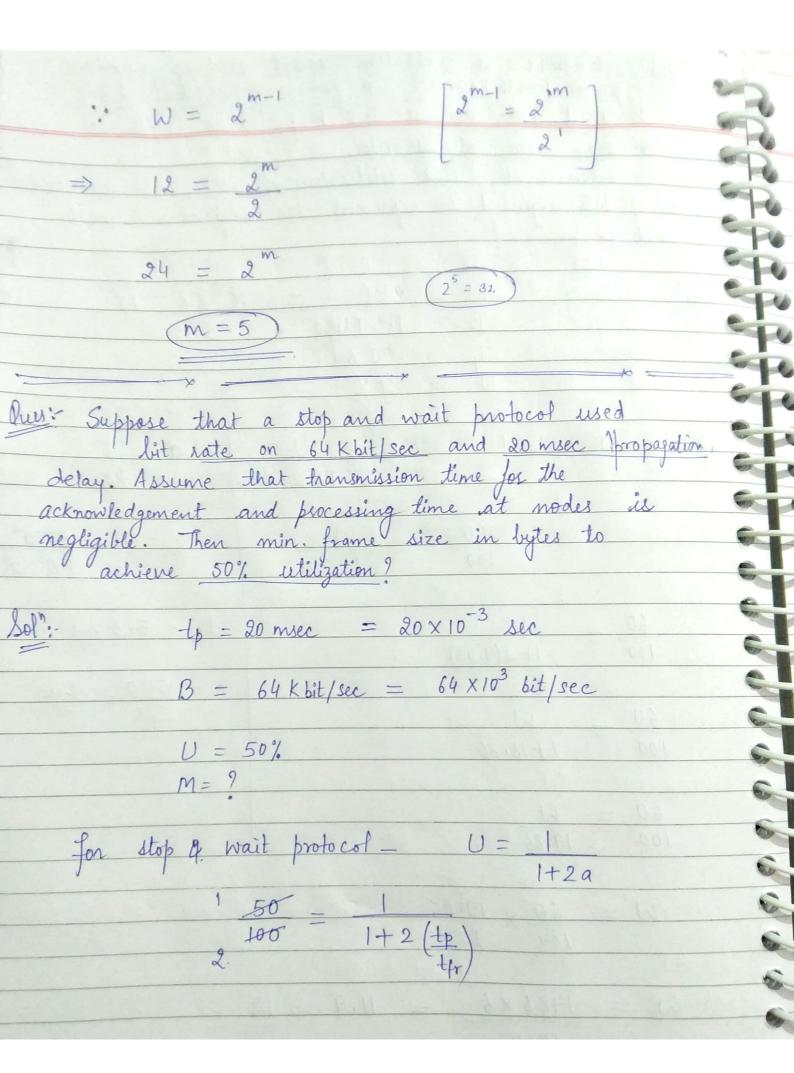
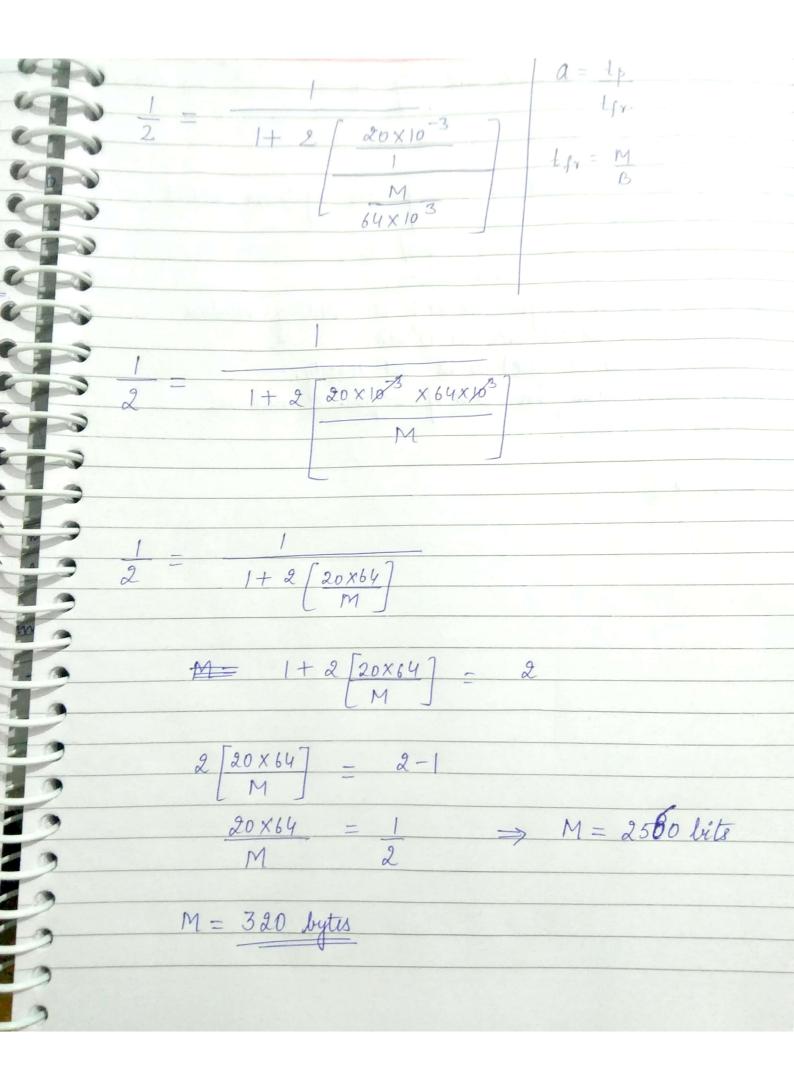
COMPUTER NETWORKS Flager model. OSI Model message Application. Presentation Session Transport-Network Data link lits Physical Noiseless channels LU Simplest (2) Stop & wait. Noisy channel (1) Stop & wait ARQ (2) Go back N (3) Selective Repeat ARQ. Stop and wait ARQ: uses mod-2 arithmetic as it has either 0 or 1 as data packets. Go back N ARQ: Sender window of size = 2m-1 and reciever window size = 1

Selective Repeative ARQ Sender window size = 2^m-1
Reciever window size = 2^m-Reciever window size = basic formulas (time for propagation) Utilizations =) Stop St walt $W \ge 2a+1$ =) Go back N ARQ ; Throughput. U X Bandwidth







tp= 12 msec Shres: Consider a network connecting two systems located 8000 km apart. B = 500 × 10 bits/ sec Speed = 4×106 m/sec. It is needed to design Goback N sliding window protocol. Any packet size is 107 bits. Network is to be used to its full capacity. Then min. size in bits of sequence fields is ___ ? Ans:- 8