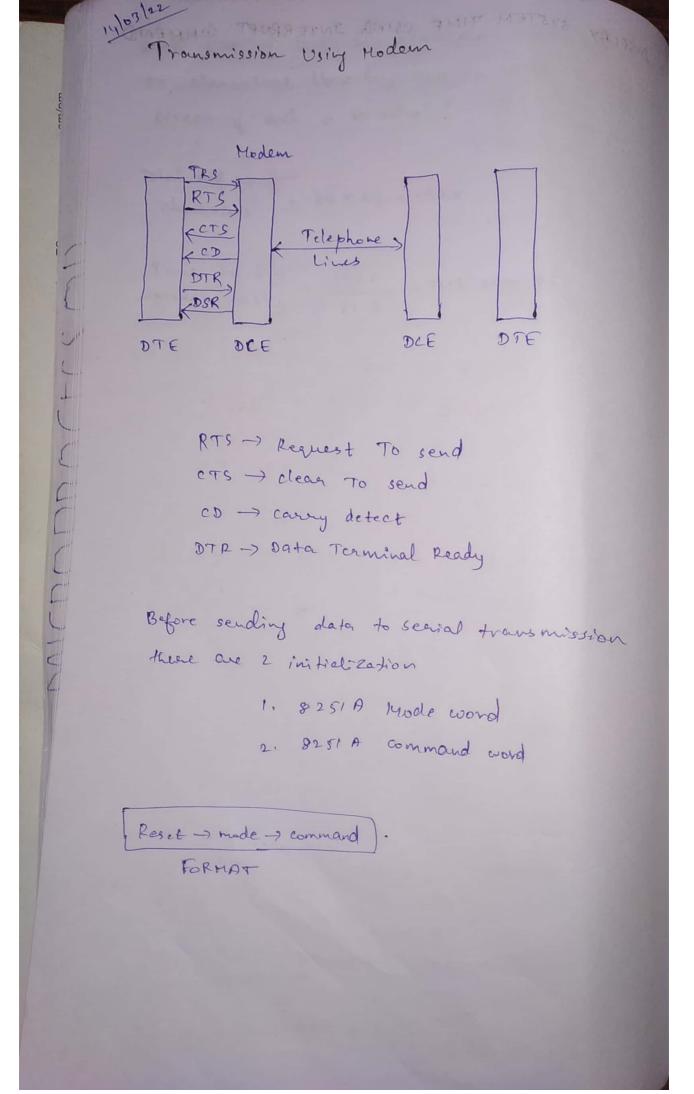
COMMUNICATION MODES as promonters, they had so take to the · Simplex . Half Duplex . Full Duplex Asynchronous Transmission · receiver clock runs unsynchronized wiret to incoming signal (RX3) · Each character i's encapsulated between an additional start bit and one for more stop bit . The state of the signal on the transmission line blw characters is idle state · start bit -> LSB -> MSB -> stop bit Calculate Band rate and character nate for the secial data shown below A -> 1010 B-> 1011 20100 219141516 7 819 1011 3-33 mg 1 character 3.33 ms = 300 bits/sec 11 x 3-33 ms = 36.63 ms to transmit 36.63ms = 27.3 characters / second

Each live of this, monitor can accomodate 80 characters. How long will it take to fill screen of such a terminal? Total and no. of Characters = 80 × 24 = 1920 rime to fill 1920 - 70.3 seconds
screen full 27.3 · FOOM sharasten is encapsulated between our



Set as 8251 in asynchronous mode as a transmittee and neceiver, with even panity enable, 2 stop bits, 8 character length, frequency 160 KHZ and band rate 10 K shits 168 even parity bits SAM -> 3 bytes ALP programs start ! MOV AX, 2000H Mov Ds, Ax Mou SI, 5000H MON CL, (64H) -> 100 bytes (3 bytes -> 03H MON AL, FEH DUT TOH , AL MON AL, 11H OUT FOH , AL IN AL, TOH WAIT : AND AL, OIH JX WAIT -> transmit is not enabled MOU AL, [SI] OUT TIH, AL INC SI DEC CL JNZ WAIT MOV AH, 4CH INT 21H

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