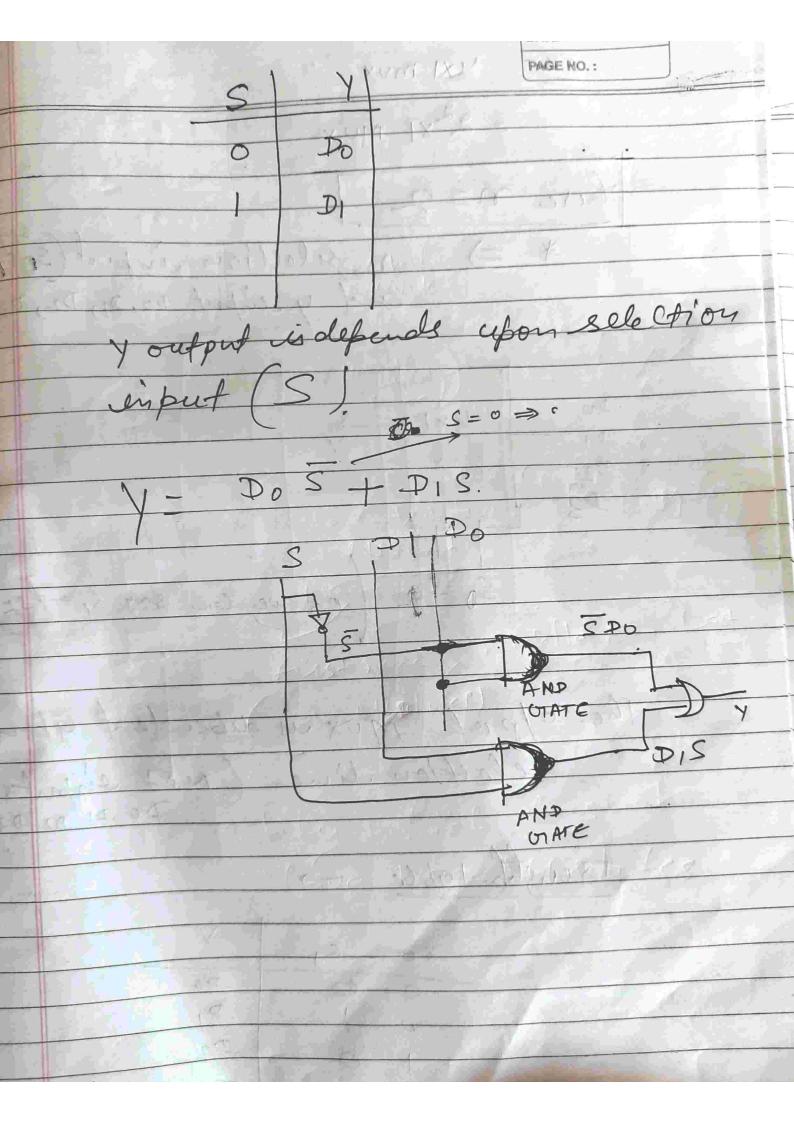
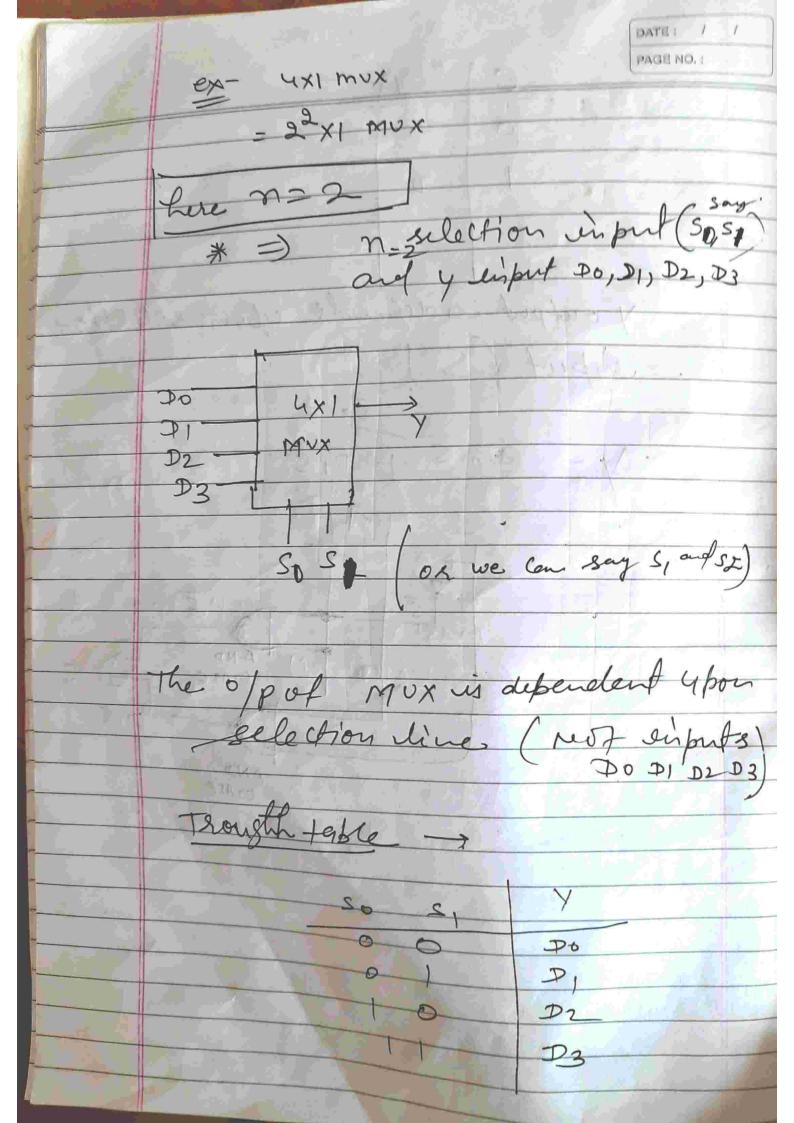
भी गठीशाम नम् DATE: / / PAGE NO.: Multipleper is a combinational logic circuit wied to select only one input among several inputs based on selection lives. # This can be act as digital switch # this is also called as cloter selector # For a multipleser there can be 2'h inputs, n selection live (n is here selection live) & only one o/p. Do 71 2 XI MUX 1 1 52 Sn 2x 1 mux Design. example-Do 2XI

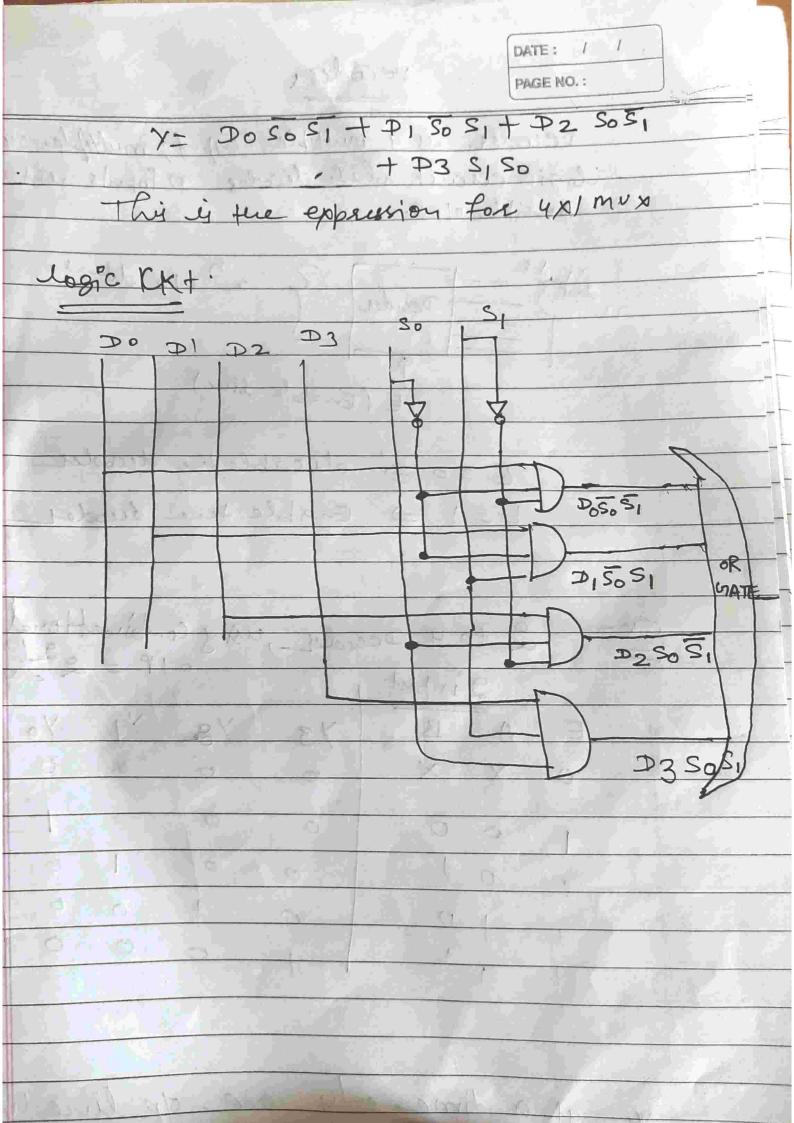
D101

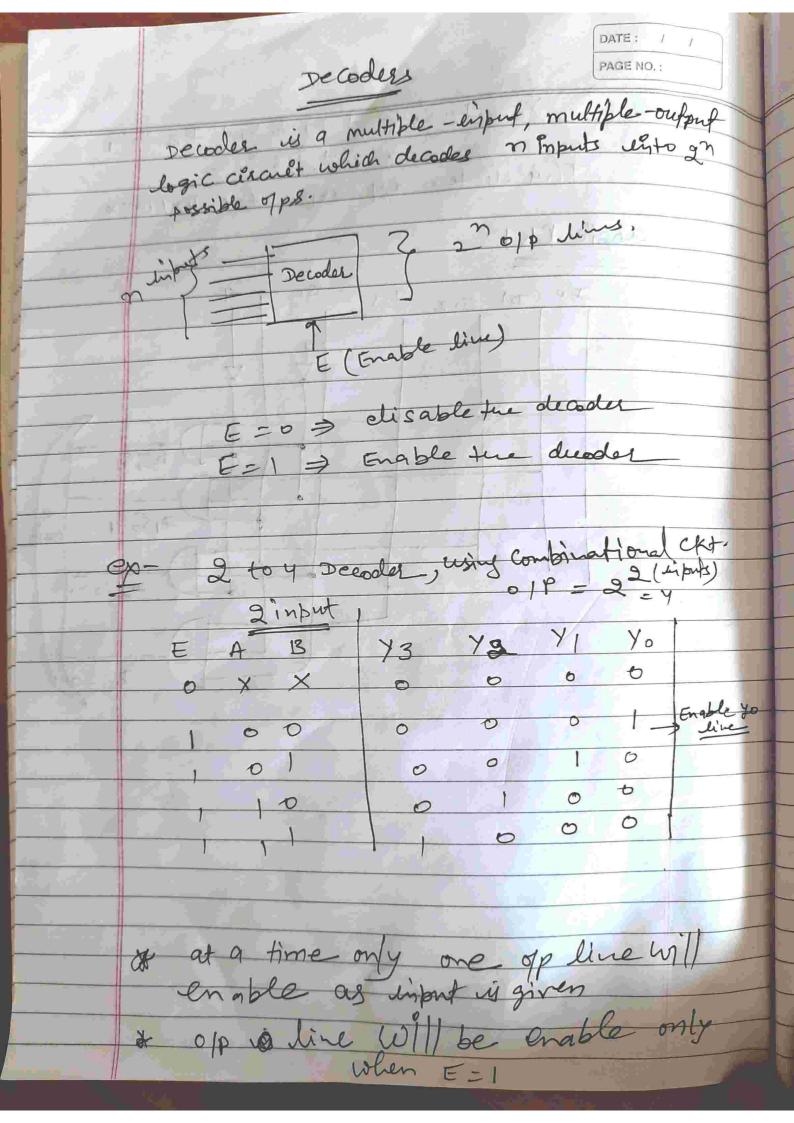
D2-1=71

S





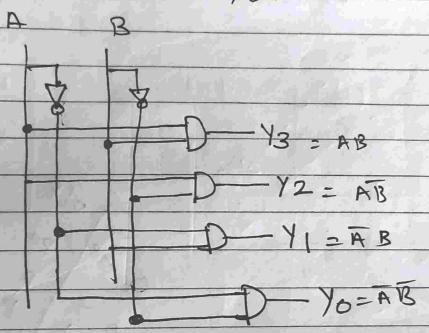




DATE: / /

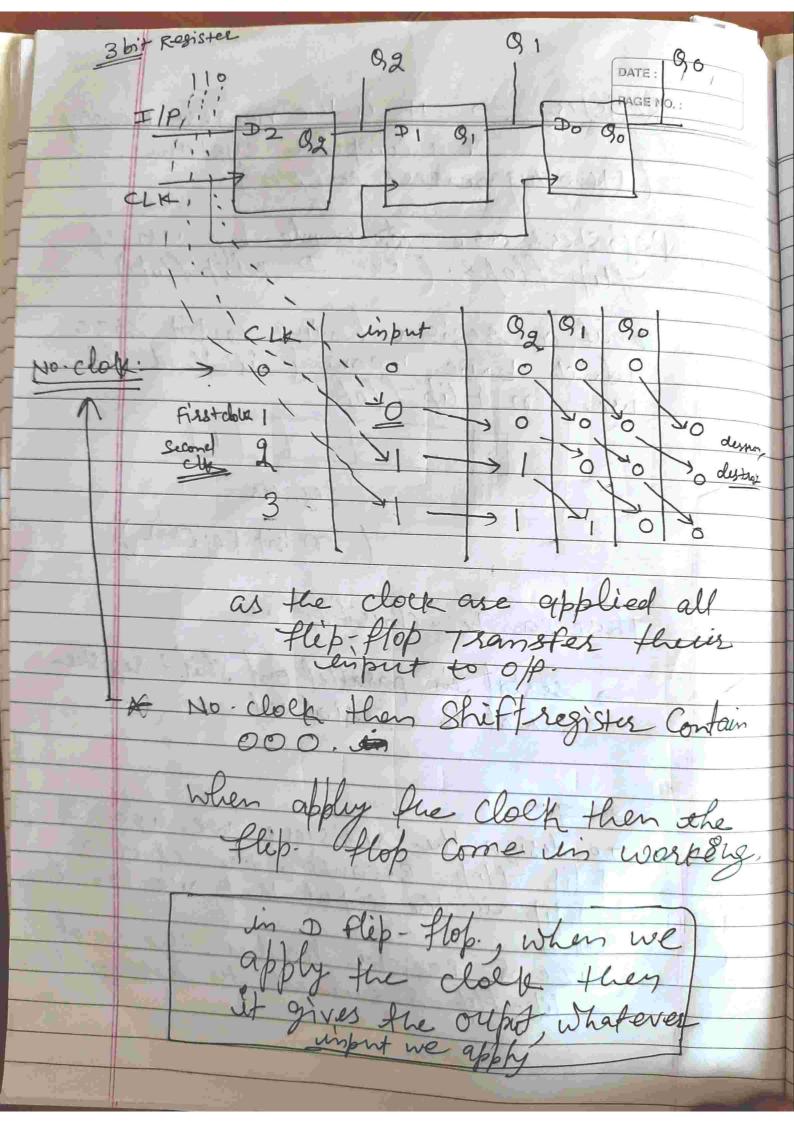
PAGE NO.:

$$Y_3 = AB$$

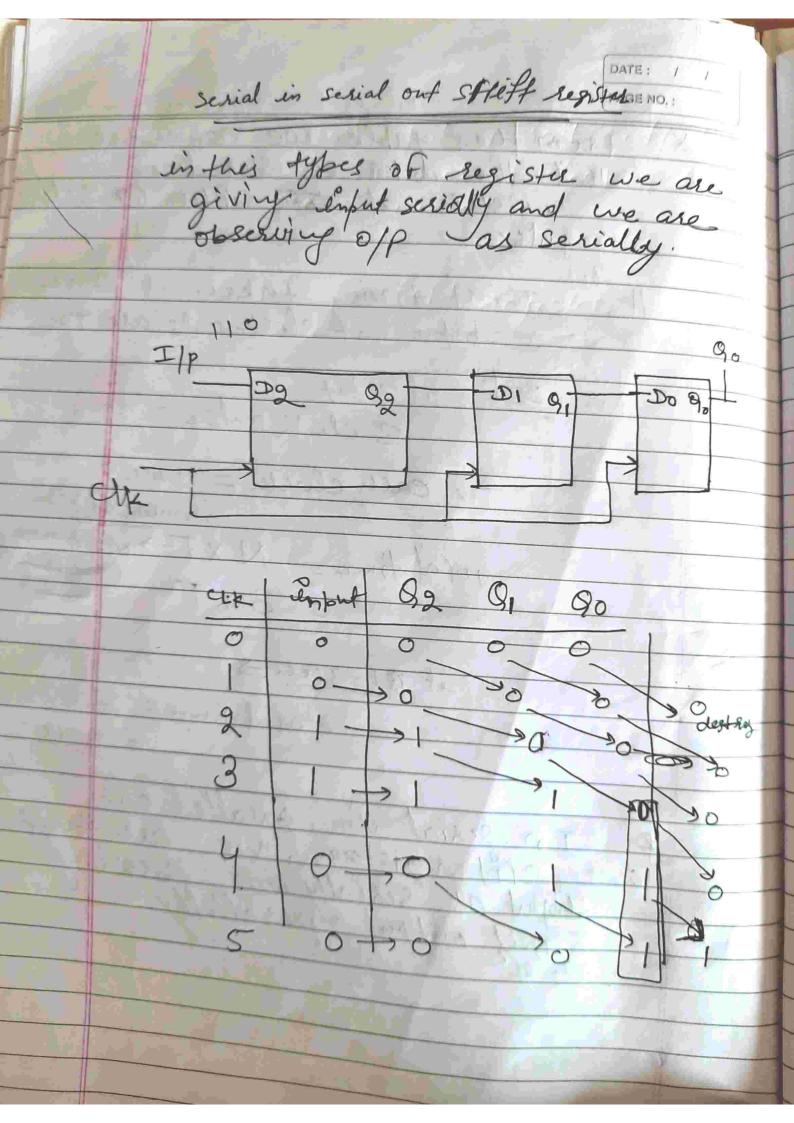


Register - it is the nearest Memory Memory nearest to CPU). Registers are de made by using flip-flops. (ex- D-Flip flop) we on Flip flop. n ... 17/1 Register (n bit Register) These can be classified as. -> serial ein parallel out Shift register

-> serial ein serial out 1) Flip flop Because, the op of D Flip is the enput that we provide to it. size of Register decides, the no of flip-flop sequired to dessign it.



DATE: / / teom the table we can see that the data is stored by. register at east after to 3 close pulse Total time taken to store 36+8 if clock puls are TSec. 3 67 3 clop pulse = 3T 1 each chock = TSIC = 3SIC total time = NXT-> No of time = 3 XT ( E) if BT=3sec => total fine = : 3×3 sec In serial in parallel out Stit registers, we are giving input as serially and observing one output parallelly.



Time required en serial PAGE-NO.: serial out (2-2) time = N+N-1 T = [2N-1]T here N > number of big + -> clock duration to get the serial in parall out data. (N= 3 bits) and T close pulse=2 time = NT = 3x2 ml = 6ml How much time we required to. get the serial in serial ofp. for register time = N+ N-1)+ = (2N-1)T = [2x3-1]T = 5x2=10 sec.