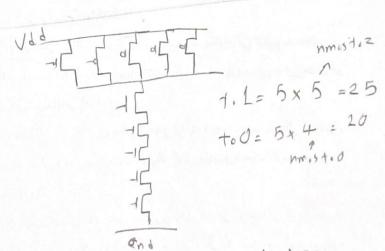


401;

A.B.CI : our - 1.10 17ns

1.0; A.R. C;; ... -> 1.1

NAND SIMPUT



AND same as NAND SINDUT FORNAND 16 INDUT WE have;

1110-0111 wirst=112

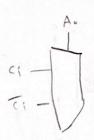
Part C

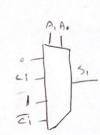
Karnath math of 50:

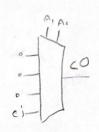
kanophmap of si;

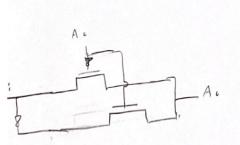
C, Oc c1 11 1-

karnaush map of co:

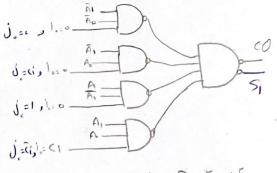








7.1: $0.0 \rightarrow 10$ 7.5 = 12 $7.0: 0.1 \rightarrow 11$ 7.5 = 17



3 input NAND: $T.1 = 3 \times 5 = 15$ $T.0 = 3 \times 4 = 12$ 4 input NAND $f.1 = 4 \times 5 = 20$ $T.0 = 4 \times 4 = 16$

= 7.01 = 20 + 15 + 7 = 421.0 = 16 + 15 + 7 = 38