MANSTON Maris Uniyal 19 EE 10039. Maris Camlin class Test 1 Why Famout depends on NML.

Draw TIL tristate circuit & working Oz. Krove AN 80 rpti 800 law using. F(XYZ) = X.Y + X.Y.Z + X. (Y+XT) ds F(XYZ) = X.Z+4.Z (1) SOP. mintermu (ii) Pos maxterms. (i) only NANID gate (ii) NOR gate. Que Transfer characteristic of cmas of 5v (Vas) V+n=1V, Vin=2 -> at Vi= VIH, what are States of 2 transsister > Draw cmos transister level diagon for Boolean expin Q3.

VOH no of gates that can be wonnected to load end. increased. Vous VIL+NM -Vout c = Vcc - Vout 10 = Vout - VBE sat increas B emout ) N decreased. with Encreased NM. e circuit. Vous s

Abarophiso Laws. distributive law. identity. C1211).x as 21/- 21 x = (4+x) - x can also be proved as as rone X. x (1+14) (SC) (FX+BX+(SVX+P.X)) (= 1/2) = =((x+Y)x+(x+x))= Y+X7=X+Y, (X+[SYX+F.X)]=as x(x+y)=x. = (X.(9+YZ))+X) = ((x.(Y+Z))+x)' (x'+ (Y'+Z)' + x) X+X=1=(1)'=0.

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(i) SOP.

= XYZ + XYZ + XYZ + XYZ.

= Zm(6, 5, 1).

XYZ m/M.

XYZ m/M.

XYZ 000 0 X+YD.

(ii) POS.

= TIM(0, 2, 3, 4, 7).

= (X+4+2) \cdot (X+4+2) \cdot (X+4+2).

(X+4+2) \cdot (X+4+2) \cdot (X+4+2).
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