Examen Partiel 2022

b) c'est en oscillateur astable. In et Rz punuttent d'étables les suiss VTH et VTL du fistable in verseur.

BLATITE

B = RITEZ

VON THE TOTAL THE PARTY OF THE

c) f-3h = ft/ABP = 10MHz/10 = 1MHZ ABP = 1+ 9005C = 10 V/V e) $\frac{1}{2}$ \frac

2- a) angeli d'instrumentation Void Ry (1+ Rz) Vid Rz (1+ Rz) R2/R1 = 9 (+ M2 = 10 étage 1 Ry = (0 étage ?! (vod = Ad. vod) 500 mV 6) Vod = c) Acm = Socon = toom 1ml = 0,01

Vion

Vion

Trunc = 20 log (Ad) = 20 log (100)

= 80 db d) Zin = 0 con (m=0 an V, = Uz = Vian e) Aan(itage1) = 1 V/V ne créé pas de comant dans 2R1. 1) (pomus) v, = -0,005 cos unt + 0,1 cos w2 t V2 = 0,00€ cos w, + 0,1 cos w2 t vo1 = -0,05 cosult +0,1 cosw2t voz = 0,05 cozwit + 0,1 cozwzt V0 = 0,5 ces wit + april cas wet 3- wp=211.5 ktz , ws=211.05 kth2. Ez 0/10/10-1 = 0,54931 Ami = 10ds < A (ws = 15ketz) = (0 log (1+ E = (wr/wp)) 3N a) N Z 4 5) TH(A) = X7+0,765A+1 DZ+1,848A+1 (x)= Td(2= 1)= N, we 22 + 0,765 w. 2 + 000 2 W2 W3 Wo = wp (1/2)1/N 1/4 = 2T. 5 Mity (1/0134931) = 24 + 1,849 wo R + cuo 2 = 215.6,5KHZ Q1 = -> 0,765) Q2 = 1 1,848 TU(2) = akw. e 12+2(wo/a)+wo2 C) section sullen key. Q1 = 10,765 C = 10f $n = nz = n_{H} = 1/\omega_{0}C = 243485JL$ $n = n_{Z} = n_{H} = 302395L$ $n = (2 - 1/\alpha_{0})R_{A} = 302395L$ K/= 1+ Rg/RA = 2,235 a = 1/1/2,235 N,= a. K'=1

section viductaine si millée on drown. C6=C4 = C = Inf. et n, = R2 = R3 = R5=R N= 1 = 24,48552 200 (2T.6,5NH2)(INF) 1/1,848 done RG = 211.6,5142 Inf. Wo = - - C6 L6 - 1325052 Q2 = (, oH8 V= - 1 7