BEC Set-G YASH GORTA Szozowalo 209

0-1

1 1-

TASH GUPTA (5202000 10239

$$I_1 = V$$
 $I_2 = V$
 $I_3 = V$
 $I_4 = V$
 $I_7 = V$
 $I_{1} = IGAM$, $I_{2} = S.SGM$, $I_{3} = 3.34A$, $I_{4} = 2.18A$

R> Gain of High pars = $(1+R_4)\frac{f}{fc}$ $\sqrt{1+(\frac{f}{fc})^2}$

$$\frac{1+\left(\frac{1}{4}\right)^2}{1+\left(\frac{1}{4}\right)^2}$$

where fc= 1 27, R2 C2

Hast = VHV = State = R. V., JR,2 + X22 No el = NA J R,2 + R,2 C,2 = 1 1 + (40)2 (41)2 (41)2 (41)2 (41)2 Vo= Xc Nred JR22+ Xc2 = 7wc2 by

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\text{97 \text{17 \text{1 JH/f Voel 1+ (+4/+)2 Vout = (1+ Ry + 1) + 11 | 1+ (+)2

lgcin = 10 (1+ Ry)=1=

F= fr = 2-Ti JR, R2 C, C2

27 J3x3x 0.8 x 0.00 (x 1= x 15 x 15 x 15 x

FH= = 1 27, R2C2 = 27,3×0.00(×1=3×1=6

1 - 1 = 1 2 TI R, C1 = 2TI x J x D. 8 x 1 = 2 x 1 = 1

Jo= 77, Sin=8842, fl= 66:3

Vout = 10 × 77 ×12

 $\int 1 + \left(\frac{37}{3942}\right)^2 \int 1 + \left(\frac{37}{66.3}\right)^2$

Voit = 866) (Void = 104)

Topy Go

VCC Internal Cocurt Voltage o ac son capaciton vc= v++(vi-v+)=VR.G V4 = 4 Vcc , Vi= 0,V, the capacitar will change who 2 vcc=vcc-vce=48,6, 2=1- EtlR,C, -t/R,C, = 21/3 t = 1.1 R, C,

15th 43

YASH GUPTA 0.5 520200010239 (A (6) 6.05V -TLASH (3) 3. 420 E (2) 2.28v .E (1) 1.14v C VD= Bx Reg Voltage at what 6 is greater than infort , here we will voltage gd binany output. of usde 2 Onan outher = (0)