

Quiz - 1

Sub:- Analog ckt.

Branch - ECE, 4th sem

Que:-1. For a BJT, if ' f_T ' represents unity-gain-bandwidth product, then _____

- (a) $f_T = 1$ (b) $f_T = h_{fe} f_\beta$ (c) $f_T = \frac{h_{fe}}{f_\beta}$ (d) $f_T = \frac{f_\beta}{h_{fe}}$

Que:-2. For a transconductance amplifier, $R_i = \dots?$; $R_o = \dots?$

Que:-3. Band-width of n-stage amplifier _____

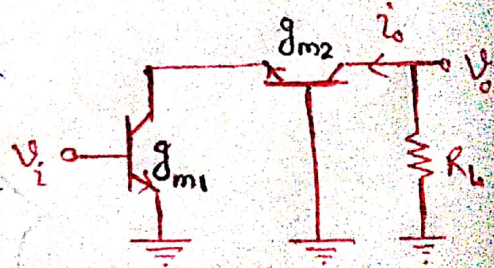
- (a) Increases (b) Decreases (c) Remain constant (d) None of the

Que:-4 Transconductance of cascaded amplifier shown in fig-1 is $g_m \left(\frac{V_o}{V_i} \right)$ will be equal to.....

- (a) g_{m1} (b) g_{m2} (c) $\frac{g_{m1}}{2}$ (d) $\frac{g_{m2}}{2}$

Que:-5 A transistor goes to saturation, if

- (a) $I_b < \frac{I_c}{\beta}$ (b) $I_b > \frac{I_c}{\beta}$ (c) $I_b > \frac{\beta}{I_c}$ (d) None of these



Que:-6 Which coupling circuit provide excellent impedance matching in ~~multi~~ multi-stage amplifier _____?

Que:-7. Two-dis-advantage of Darlington Pair are _____.

Que:-8. In single-stage RC coupled amplifier, the phase shift at lower cut-off 3dB frequency is _____

- (a) 0 (b) 180° (c) 135° (d) 225°

Que:-9. Thermal runaway in a CE transistor can be prevented, if

- (a) $V_{CE} > \frac{V_{CC}}{2}$ (b) $V_{CE} < \frac{V_{CC}}{2}$ (c) $V_{CE} = \frac{V_{CC}}{2}$ (d) $V_{CE} = 0$

Que:-10. configuration of transistor is called current buffer.

H.O.D ECE,

04/04/2020

P.C.E Purnea