- 1) The dominant pole in the HFR is usually Caused by High impedance mode
- (2) Consider IC CS amp With

 Rsy=20k, Rleff = $\frac{r_0}{2}$ = 10 k Ω , $g_m = 4mS$, $g_s = 20 JF$ Cgd = 2JF, $C_{sb} = C_{db} = 10 JF$ and $C_1 = 15 JF$ Let $\frac{c}{2\pi}$ $\frac{c}{$
- 3) If the Dotput Pole of the amplifier Is the dominant Pole, then Increasing Rout Will ... the GIBW of the amp GBW = Av. BW = GIM Rout . IT Cont Rout + f (Rout)
 - .. Not Change
- (4) If a Capacitance CF Is Connected between the Input and the output of a buffer, the effective Input Cap Is ... CF
- (B) If both designed under the Same Conditions, the BW of CG complifier is Trigher than the BW of CS amplifier because.

 CG complifier does not after from miller effect
- 6 For a CG amplifier, the dominant pole is usually the -
- The CasCode amplifier with ROKTO Can provide --- bondwidth Compared to a CS amplifier that That That the Same load resistance thigher

- 8 for a CS amplifier, the dominant pole 73 usually the _- Pole Tuple
- @ Consider a Common Gale amplifier, In=4 mp, To 75 very large Gs=20 ff, Gd=5 ff, Cds=Cdb=10 ff, G=15 ff

 Rsig=lok 2 and R1=10 ks2. The dominant Pole Frequency
 75 approximally equal to---

WPd = 1 = 530 HHZ

To Consider an IC CS amplifier Sed with a Source Traving Source resistance Rsig = 20kl and Traving an effective load resistance Re Composed of ro of the transistor perchet with equal ro of Current Source load.

of = 4ms, ro = 20ks. (ys = 20 ff, Cgd = 2 ff, Csb - (db = lo)ff C1 = 18ff. the dominant pole frequency is approx equal to ...

Ar- 9 m 10 = 40

2. WPd = 80 MH-C