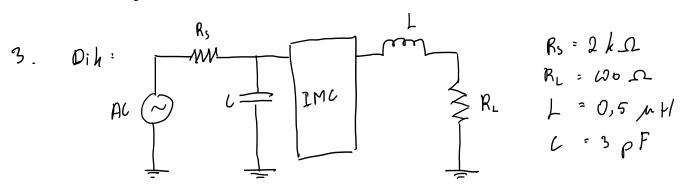
M. Haryim Abdillah P. 1101191295



Qt: Rangkasan IMC

Javab:

$$L + L' = 1,39 \text{ mH}$$
 $0.5 \text{ mH} + L' = 1,39 \text{ mH}$ 

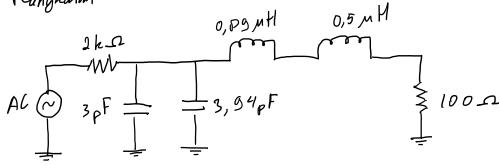
$$C \text{ Total} \rightarrow C_7 = 6,94 \text{ pF}$$

$$C + C' = 6,94 \text{ pF}$$

$$3 \text{ pF} + C' = 6,94 \text{ pF}$$

$$C' = 3,94 \text{ pF} -> C & C' \text{ dirang hair parallel}$$

Rangkaian IMC:



4. Oih:

$$R_s = 2k\Omega$$
 $R_L = 100\Omega$ 
 $C_p = 3pF$ 
 $S = 50 MH_2$ 

Qt: Rangkasan IMC

Jawas:

of Gunckan Jawasan no. 1 untuh menentuhan Ls seri dengan Cs dan RL Xs = Qs. Rs degan Rs = RL = 100\_2

$$2\pi S L_s - \frac{1}{2\pi f C_s} = Q_s \cdot R_s$$

$$2\pi s L_s = Q_s \cdot R_s + \frac{1}{2\pi f C_s}$$

$$1.3,14.50 \times 6^{1}$$
.  $L_{5} = \sqrt{19}$ ,  $L00 + \frac{1}{1.3,14.50 \times 10^{1}.5 \times 10^{-12}}$ 

Ls = 2,98 × 10 -6 H = 2,98 MM -> Ls & Ls diranghai seri

$$C \text{ Total} \rightarrow C_{r} = 6,94 \text{ pF}$$

$$C_{p} + C_{p}' = 6,94 \text{ pF}$$

$$3 \text{ pF} + C_{p}' = 6,94 \text{ pF}$$

Cp'=3,94 pF -> Cp & Cp' dirang kai paralel

Rangkaian IMC:

