6. FET phase -shift:
$$g_m = 6000 \mu S$$

$$Q = 36 k \Omega$$

$$f = 2.5 k H_2$$

$$C = \frac{?}{2\pi R L L}$$

$$C = \frac{1}{2\pi R + \sqrt{6}} = \frac{1}{2.3.19.12 \times 10^{3}.2.5 \times 10^{3}.56} = 2,16 \times 10^{-9} = 2,16$$

7. B]T phase -shift:
$$R = 6 k\Omega$$

 $C = 1500 pF = 1,5 nF$
 $R_c = 1P k\Omega$

$$f = \frac{1}{2 \pi RC} \frac{1}{\sqrt{6 + 9(R_c/R)}}$$

$$f = \frac{1}{2 \cdot 3.14 \cdot 6 \times 10^3 \cdot 1.5 \times 10^{-5} \cdot \sqrt{6 + 4(1Ph/6h)}} = 416P, 13 H_{\frac{3}{2}}$$

P.
$$R = 10 \text{ k} \Omega$$
 Wien Bridge

 $C = 1400 \text{ pF} = 2.4 \text{ nF}$

$$f = \frac{1}{2E \text{ RC}} = \frac{1}{2.3.14 \cdot 10 \times 10^3 \cdot 2.4 \times 10^{-9}} = 6634, P2 \text{ Hz}$$

$$L_{eq} = \frac{L_{1}C_{2}}{L_{1}+L_{2}} = \frac{750 \, \rho F. \, 2500 \, \rho F}{750 \, \rho F + 2500 \, \rho F} = \frac{7500}{17} \, \rho F = 576,92 \, \rho F$$

$$f_{0} = \frac{1}{2E\sqrt{L_{1}C_{2q}}} = \frac{1}{2.3.14\sqrt{40} \times 10^{-6}.576,92 \times 10^{-12}} = 1,05 \, \text{MHz}$$

$$C_{eq} = \frac{C_1 C_2}{C_1 + C_2} = \frac{ODO5 \cdot OD1}{OD05 + OD1} = \frac{1}{300} MF$$