

32- The following transformer values are given; $E_p = 60\text{ V}$, $N_p = 80$, $N_s = 25$, $Z_s = 20\text{ ohms}$, find; 1. E_s 2. I_s 3. I_p 4. Z_p

33- 1. Given a transformer with $E_p = 12\text{ V}$, $a = 1:8$, and $Z_s = 20\text{ ohms}$, find P_p and P_s .

33- 2. Given a 3 phase 4 wire, Y connected machine with $I_{\text{phase-generator}} = 100\text{ A}$, find the line current.

34- Given a 3 phase Y connected system. 1. $I_{\text{phase}} = 100\text{ A}$, find I_L 2. $E_L = 500\text{ V}$, find E_{phase} 3. $E_{\text{phase}} = 600\text{ V}$, find E_L

35- Given a 3 phase Delta machine; 1. $E_L = 220\text{ V}$, $E_{\text{phase}} = ?$ 2. $E_{\text{phase}} = 440\text{ V}$, $E_L = ?$ 3. $I_L = 200\text{ A}$, $I_{\text{phase}} = ?$ 4. $I_{\text{phase}} = 50\text{ A}$, $I_L = ?$