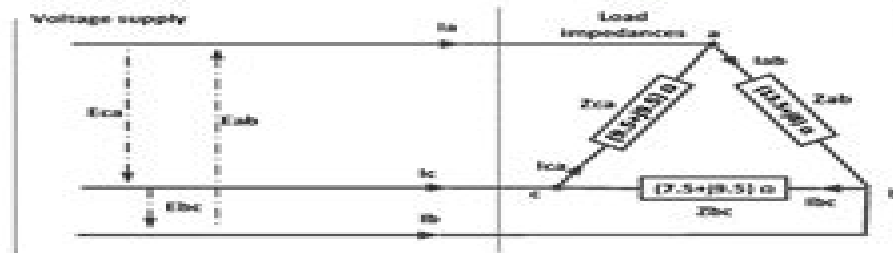


**ELECTRICAL ENGINEERING**  
**MEMO-EXAM (MAIN), SEM 1, 2018**  
**ELECTRICAL ENGINEERING III**  
**By Dr BP NUMBI**

**QUESTION 1 (Marks: 20)**

**1.1** The application of KCL to the three-phase delta-connected load shown in Figure below gives the following equations:

- Node a:  $I_a = I_{ab} - I_{ca}$  (Eq.1) (1)
- Node b:  $I_b = I_{bc} - I_{ab}$  (Eq.2) (1)
- Node c:  $I_c = I_{ca} - I_{bc}$  (Eq.3) (1)
- Adding the three equations, we get:  $I_a + I_b + I_c = 0$  (1)



**1.2** Line voltages (phasors),  $E_{ab}$ ,  $E_{bc}$  and  $E_{ca}$ .

- $E_{cb} = \frac{537.4}{\sqrt{3}} \angle 120^\circ = 380 \angle 120^\circ V$  (1)
- $E_{bc} = 380 \angle -60^\circ$  (1)
- $E_{ca} = 380 \angle 60^\circ$  (1)
- $E_{ab} = 380 \angle 180^\circ$  (1)

**1.3** Calculate the phase currents.

- $I_{ab} = \frac{V_{ab}}{Z_{ab}} = \frac{380 \angle 180^\circ}{(13.5 + j8)} = 24.22 \angle 149.35^\circ A$  (1)
- $I_{bc} = \frac{V_{bc}}{Z_{bc}} = \frac{380 \angle -60^\circ}{(7.5 + j9.5)} = 31.4 \angle -111.71^\circ A$  (1)
- $I_{ca} = \frac{V_{ca}}{Z_{ca}} = \frac{380 \angle 60^\circ}{(9.5 + j9.5)} = 28.28 \angle 15^\circ A$  (1)

**1.4** Calculate the line currents drawn from the supply.

- $I_a = I_{ab} - I_{ca} = 24.22 \angle 149.35^\circ - 28.28 \angle 15^\circ = 48.415 \angle 174.04^\circ A$  (2)
- $I_b = I_{bc} - I_{ab} = 31.4 \angle -111.71^\circ - 24.22 \angle 149.35^\circ = 42.53 \angle -77.48^\circ A$  (2)
- $I_c = I_{ca} - I_{bc} = 28.28 \angle 15^\circ - 31.4 \angle -111.71^\circ = 53.36 \angle 43.15^\circ A$  (2)

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