

2. (a) State and explain Thevenin's Theorem. What are the limitations of this theorem?
 (b) Find the current through 10 Ohm resistance in figure 2b using Thevenin's Theorem.

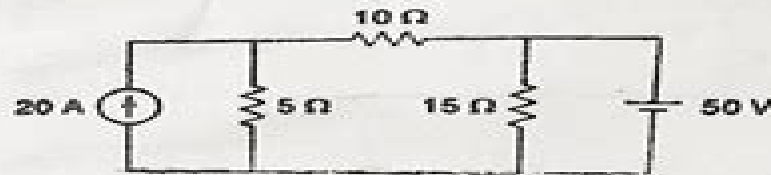


fig2b

7+7=14

3. (a) State and explain superposition theorem.
 (b) Find the current in 50 Ohm resistance in figure 3b using superposition theorem.

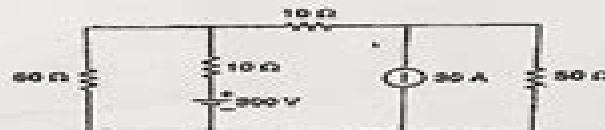


fig 3b

7+7=14

4. (a) Derive an expression for RMS value of sinusoidal waveform.
 (b) A 230 Volt 50 Hz voltage is applied to a coil $L=5H$, $R=2\ \Omega$ in series with a capacitance C , what must be the value of C so that the voltage across the coil be 400 Volts? 7+7=14
5. (a) Describe various losses in transformer and derive the condition of maximum efficiency.
 (b) The primary winding of a 50 Hz transformer is supplied from a 440 Volt 50 Hz source and has 200 turns. Find (i) peak value of the flux (ii) voltage induced in the secondary winding if it has 50 turns. 7+7=14
6. (a) Explain the working principle of three phase induction motor. Describe the torque slip characteristics of induction motor.
 (b) A 3 phase 50 Hz 6 pole induction motor runs at 950 rpm calculate (i) synchronous speed (ii) slip and (iii) frequency of rotor emf. 7+7=14

1st Semester Mechanotechnics

Wenbin Ji



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