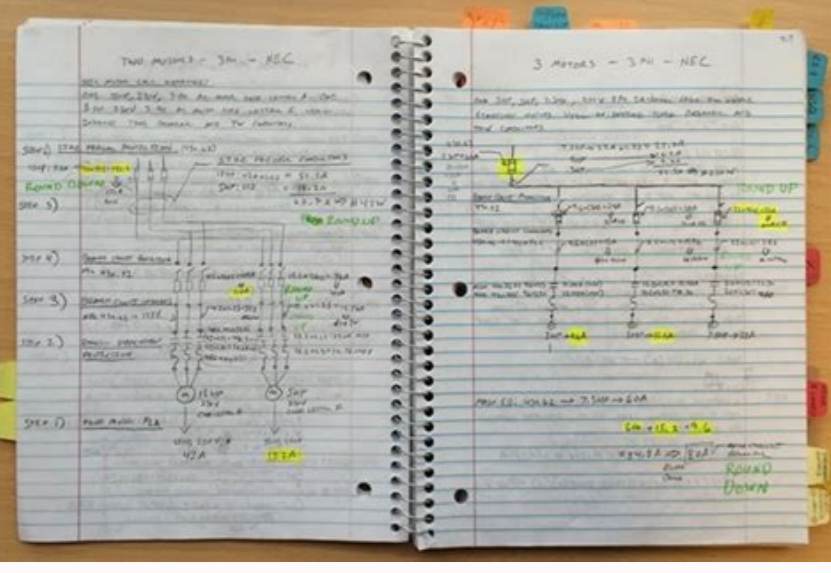


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FEL Sem 2 / choice based / BEE / All branch / 15/12/17

Subj: Basic Electrical Engineering

Q.P. Code : 25675

(3 Hours)

Total Marks : 80

- N.B. :** (1) Question No.1 is compulsory.  
 (2) Solve any three from remaining questions.  
 (3) Assume suitable data if necessary.  
 (4) Figures to the right indicate full marks.

1. Answer any Five :

(a) A voltage  $v(t) = 282.85 \sin 100\pi t$  is applied to a coil, having resistance of  $20\Omega$  in series with inductance of  $31.83\text{mH}$ . Find 04

- (i) RMS value of voltage;
- (ii) RMS value of current;
- (iii) power dissipated in the coil and
- (iv) power factor of the coil.

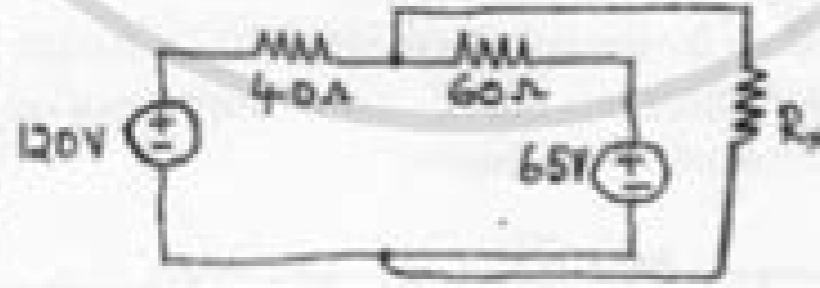
(b) Derive the relation between line voltage and phase voltage in star connected three phase system. 04

(c) Find the node voltage  $V_1$  by nodal analysis. 04



(d) A single phase transformer has a turn ratio ( $N_1/N_2$ ) of 2:1 and is connected to a resistive load. Find the value of primary current (both magnitude and angle with reference to flux), if the magnetizing current is 1A and the secondary current is 4A. Neglect core losses and leakage reactance. Draw the corresponding phasor diagram. 04

(e) Find the Norton's equivalent of the given circuit across  $R_x$ . 04



(f) A coil having a resistance of  $20\Omega$  and an inductance of  $0.1\text{H}$  is connected in series with a  $50\mu\text{F}$  capacitor. An alternating voltage of  $250\text{V}$  is applied to the circuit. At what value of frequency will the current in the circuit be maximum? What is the value of this current? Also find the voltage across the inductor and quality factor. 04

TURN OVER

Seat No!

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