

b Determine the variation of impedance and phase angle of series resonant circuit with L2 6M frequency.

Q.P.	Code: 20EE0201	0	
6	a Explain resonance for parallel RLC circuit for a tank and derive the equation for	L3	6M
	 b Explain about Band-width of parallel resonance. UNIT-IV 	L3	6M
7	a Derive the expressions for mutual inductance with expressions.	L2	6M
	 b What are single and double tuned circuits? Where the tuned coupled circuits are Employed. 	L1	6M
8	a Explain series connection of coupled inductors.	L3	6M
	 b An ideal transformer is rated at 2400/120 V, 9.6 kVA, and has 50 turns on the secondary side. Calculate: (i) the turns ratio, (ii) the number of turns on the primary side, and (iii) the current ratings for the primary and secondary windings. 	L4	6M
9	a Find the tie-set matrix for the followings.	L4	6M
	b Write the procedure for constructing tie-set matrix.	L2	6M
10	a Write the procedure to draw the dual network and find dual network for the following.	L4	6M
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	10A + SF SH & EITO		
	b Determine mesh currents for the following network.	L4	6M
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