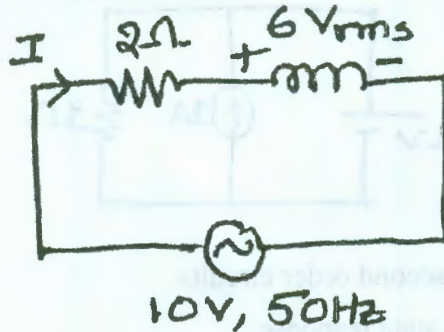


b) Find current I in the circuit shown bellow.

5



14. a) Find the bandwidth of series RLC circuit in terms of quality factor and resonant frequency.

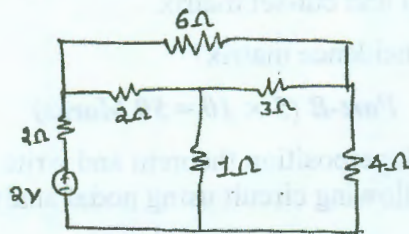
5

b) Write the properties of resonance of parallel RLC circuit.

5

15. a) Write tie-set schedule and calculate branch currents and branch voltages for the circuit shown below using tie-set analysis.

7

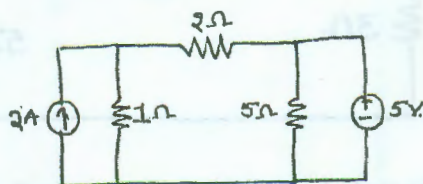


b) Explain the concept of complex frequency.

3

16. a) Determine the current through the 5Ω resistor in the circuit shown below using Thevenin's theorem.

6



b) Find transient voltage response of series RC circuit having DC excitation.

4

17. Answer any *two* of the following:

a) Transient and steady response of series RL circuit.

5

b) Magnetic coupling circuits.

5

c) Impedance and admittance functions.

5
