

**Electrical Circuit Theory  
Important 2 Mark questions**

1. What is the relationship between voltage, charge and capacitance?
2. Define specific resistance.
3. Define maximum (or) peak value in AC circuit.
4. Write the equation for resonant frequency in RLC parallel circuit.
5. What is meant by dynamic resistance?
6. Define electric flux density. State its unit.
7. Write the equation for load current by using Norton's theorem.
8. Define power factor.
9. Define Q factor in RLC series sequence?
10. What is meant by phase sequence?
11. Define electric current. State its unit.
12. Write the condition to transfer maximum power from source to load in a circuit.
13. Define impedance in AC circuit.
14. Write the equation for resonant frequency in RLC series circuit.
15. Write the relationship between phase voltage and line voltage in a balanced star connected system.

**Important 3 Mark questions**

1. State super position theorem.
2. Define form factor and peak factor in AC circuit. Write the values for AC sinusoidal wave.
3. List the applications of series and parallel resonant circuits.
4. State Kirchhoff's laws.
5. What is meant by balanced and unbalanced load?
6. Draw the power triangle and define different powers in AC.
7. State Thevenin's theorem.
8. Define the terms conductance, susceptance and admittance in AC parallel circuit.
9. Compare series and parallel resonance.
10. State and explain Ohm's law.