- 1. Which of these is not a property of an ideal transformer.
- a. It has no losses
- b. Its windings have zero resistance
- c. Low permeability
- d. Leakage flux is zero
- 2. Parallel resonant circuit is sometimes known as
- a. rejector circuit.
- b. acceptor circuit.
- c. inductive circuit.
- d. capacitive circuit.
- 3. Which of these is an inverted ratio with respect to the voltage transformation ratio (K)
- a. Current
- b. Number of turns
- c. Voltage
- 4. Which of these is not an advantage of a half wave rectifier?
  - a. One diode is sufficient
  - b. Circuit is easy to design
  - c. Ripple factor is low
  - d. No centre tap on transformer is necessary
  - 5. State one point of similarity between full wave rectifier and bridge rectifier
  - a. TUF
  - b. Ripple frequency
  - c. PIV rating of a diode
  - d. AC power input
  - 6. If the field winding resistance of a D.C. generator is increases, then output voltage will
  - a. increase.

<ul><li>b. decrease.</li><li>c. remain unaffected.</li><li>d. fluctuate heavily.</li></ul>
<ul> <li>7.For a transistor in CE configuration, the emitter base junction and collector base junction in</li> <li>a. Active</li> <li>b. Saturation</li> <li>c. Cut-off</li> </ul>
8.The SI unit of is siemens.  a. Resistivity  b. Capacitance  c. Conductivity  d. Inductance
<ul> <li>9. Resistance is inversely proportional to</li> <li>a. Temperature</li> <li>b. Length of material</li> <li>c. Cross sectional area</li> <li>d. Resistivity</li> </ul>
<ul> <li>10. Susceptance: the ratio of reactance to the square of impedance, is denoted by which letter?</li> <li>a. B</li> <li>b. H</li> <li>c. X</li> <li>d. Y</li> </ul>
11. Which of the following parameters exhibit a point of difference between series and parallel resonant circuit?

a. **Impedence**b. Frequency

	<ul><li>c. Type of resistive circuit</li><li>d. Power factor</li></ul>
ро а. <b>b.</b> с.	
a. b. c.	.Which of these is not an advantage of a 2 wattmeter method? <b>Applicable for 3 phase, 4 wire system</b> Only 2 wattmeters are sufficient to measure total 3 phase power Applicable for balanced and unbalanced loads.  If load is balanced, power factor can also be determined
a. b. c.	. Which of these is false for a full wave rectifier using 4 diodes  It uses centre tapped transformer  Output voltage is less  Transformer is used more effectively  TUF is more than a 2 diode rectifier
a. b. c.	. The SI unit of is Ampere turns.  M.M.F.  Magnetic field strength  Magnetic flux  Magnetic field
int a.	. What is the output parameter to be defined in a parallel to parallel erconnection in 2 port networks?  Impedence  Admittance

c. Hybrid

## d. Transmission

17. In a synthesised network synthesis, if all poles and zeros of a giver
function lie alternately on a jw axis, the network is:

- **a. LC** b. RC
- c. RL
- d. RLC
- 18. Smith chart is based on the polar plot of:
- a. Reactance
- b. Voltage
- c. Current
- d. Voltage reflection co-efficient
- 19. An element which supplies electric energy to the circuit is called
- a. active element
- b. passive element
- c. bilateral element
- d. source element.
- 20. In a series R-L-C circuit at resonance
- a. impedance is maximum
- b. admittance is maximum
- c. Impedance is purely reactive
- d. current is minimum
- 21. A series-resonant circuit implies
- a. zero pf and maximum current
- b. unity pf and maximum current
- c. zero pf and minimum current
- d. unity pf and minimum current

- 22. The commutator segments are connected to the armature conductors by means of
- a. carbon brushes
- b. copper lugs
- c. slip rings
- d. brazing