General Engineering (Electrical) Paper 1 (2020-2021) Shift 2 (Memory Based)

- What is the formula for Voltage regulation of the transmission line?
- What will be the speed of the rotor for 3% slip if number of pole is 6 and supply frequency is 50 Hz?
- What is the Symbol of current control voltage source?
- Stroboscopic effect does not come in:
  A. Mercury vapour lamp
  B. Sodium vapour lamp
  C. Incandescent bulb
  D. Fluorescent bulb
- Out of the following which is not an insulator ?
  A. Diamond
  B. Rubber
  C. Polystyrene
  D. Gold
- Which capacitor has a high voltage rating ? A. Paper B. Electrolytic
- Which is analogous to Resistivity in a magnetic circuit?
- For which of the following, Voltage is proportional to rate of change of current?
  A. Inductor
  B. Capacitor
  C. Both
  D. None
- Which of the following is not in diode?
  A. Anode
  B. Cathode
  C. Depletion layer
  D. Gate

- In two wattmeter method when one wattmeter gives positive value and another gives negative value then what is the power factor?

- Voltage limiter and voltage regulator happened in?
  A. Zener diode B. Varactor diode C. Tunnel diode D. PN diode

- What is the Generated EMF formula for DC Generator?

- The relation between voltage and current as given $v(t)=i^2(t)$: the nature of the system will be?
  A. Nonlinear time invariant
  B. linear time invariant
  C. linear time variant
  D. nonlinear time variant

- What is the SI unit of current?

- What will be the coefficient of coupling if M = 3H and L1 = 18H and L2 = 2H?

- What is the possible Formula of maximum mutual inductance?
  A. $\sqrt{L1xL2}$
  B. $\sqrt{L1+L2}$
  C. L1xL2
  D. L1+L2

- If one wattmeter shows 1000W and the other shows 500W then total power would be?

- What is the size of the GI earthing electrode?

- Which law states that the line integral of magnetic flux intensity equals the current enclosed?

- If a synchronous machine operates at lagging p.f then armature reaction would be: magnetising, demagnetising and cross magnetising.