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- Q.6 The unit of conductance (CO-7)  
 a) Henry                      b) Ohm  
 c) Siemens                  d) None of above
- Q.7 The power factor for pure resistive load (CO-6)  
 a) Unity                      b) Lagging  
 c) Zero lagging              d) Zero leading
- Q.8 The unit of Inductance is (CO-7)  
 a) Henry                      b) Watt  
 c) Volt                        d) Ohm
- Q.9 The energy meter measures the energy in (CO-2)  
 a) Watt                        b) kilowatt Hour  
 c) Megawatt                  d) kilowatt
- Q.10 Unit of flux density is (CO-4)  
 a) Tesla                      b) Weber/m<sup>2</sup>  
 c) Joule                        d) None of above

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define Reluctance. (CO-4)  
 Q.12 Unit of current. (CO-1)  
 Q.13 Ohm's Law (CO-1)

- Q.14 Unit of Capacitance. (CO-4)  
 Q.15 KCL stands for (CO-1)  
 Q.16 What is meant by Self Inductance? (CO-4)  
 Q.17 Draw the symbol of constant current source. (CO-3)  
 Q.18 Define DC. (CO-6)  
 Q.19 The energy stored in a magnetic field is \_\_\_\_\_ (CO-4)  
 Q.20 Time period. (CO-6)

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What is a cell? Explain its types. (CO-5)  
 Q.22 Discuss in detail Solar Cells. (CO-5)  
 Q.23 Define RMS value & average value of AC. (CO-6)  
 Q.24 Explain the concept of phase difference in alternating quantities. (CO-6)  
 Q.25 What is the power factor in AC circuit? State advantages of low power factor (CO-7)  
 Q.26 Difference between AC & DC. (CO-6)  
 Q.27 Explain Kirchhoff Voltage Law. (CO-1)  
 Q.28 Discuss working of Ideal voltage source. (CO-3)  
 Q.29 Discuss about series resonance in AC circuit. (CO-7)