

- Q.28 Explain faradays law of electromagnetic induction. (CO-4)
- Q.29 Write differences between electrical and magnetic circuits. (CO-4)
- Q.30 Discuss working of Ideal Voltage source. (CO-3)
- Q.31 Discuss average and RMS value of AC. (CO-6)
- Q.32 Explain effect of alternating voltage applied on pure resistance. (CO-6)
- Q.33 Discuss about impedance and admittance. (CO-7)
- Q.34 Explain power factor and its significance. (CO-7)
- Q.35 Discuss about parallel resonance in AC circuit. (CO-7)

#### **SECTION-D**

- Note:** Long answer type questions. Attempt any two out of three questions. (2x10=20)
- Q.36 Explain the construction and working of LEAD ACID BATTERY. (CO-5)
- Q.37 Discuss about series combination of resistances with examples. (CO-1)
- Q.38 Explain Thevenin Theorem and its use in electric circuit. (CO-2)

**(Note:** Course outcome/CO is for office use only)

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**COMP,ECE,IT,IC,MED,ELECT/EI,PE,EEE**  
**Subject : B.E.E**

Time : 3 Hrs.

M.M. : 100

#### **SECTION-A**

**Note:** Multiple choice Questions. All questions are compulsory (10x1=10)

**(Course Outcome/CO)**

- Q.1 The unit of current is (CO-1)  
 a) Ampere      b) Volt  
 c) Watt      d) None of these
- Q.2 Voltage is measured by (CO-1)  
 a) Ammeter      b) Voltmeter  
 c) Wattmeter      d) None of these
- Q.3 The rate of doing work is called (CO-1)  
 a) Power      b) Current  
 c) Voltage      d) None of these
- Q.4 Internal resistance of ideal voltage source is (CO-3)  
 a) Zero      b) Infinite  
 c) Very low      d) Very high

- Q.5 Unit of flux is (CO-4)  
 a) Ampere      b) Volt  
 c) Weber      d) None
- Q.6 The solar cell converts solar energy in to \_\_\_\_\_ energy. (CO-5)  
 a) Chemical      b) Mechanical  
 c) Electrical      d) None of above
- Q.7 The frequency of DC is (CO-6)  
 a) Zero      b) 50  
 c) 100      d) infinite
- Q.8 The maximum value of power factor is (CO-7)  
 a) Zero      b) 1  
 c) 2      d) None
- Q.9 The unit of inductance is (CO-7)  
 a) Henery      b) Watt  
 c) Volt      d) ohm
- Q.10 The number of cycles completed in one second is called (CO-6)  
 a) Frequency      b) Voltage  
 c) Time Period      d) None of above

### **SECTION-B**

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

- Q.11 Unit of resistance is \_\_\_\_\_ (CO-1)

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- Q.12 Define Capacitor (CO-1)  
 Q.13 Define Resistance (CO-1)  
 Q.14 Define ideal current source (CO-3)  
 Q.15 Expand M.M.F. (CO-4)  
 Q.16 Define Battery (CO-5)  
 Q.17 Positive plate of lead acid battery is of \_\_\_\_\_ (CO-5)  
 Q.18 Define time period (CO-6)  
 Q.19 Define Inductive Reactance (CO-7)  
 Q.20 Define Resonance (CO-7)

### **SECTION-C**

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.

(12x5=60)

- Q.21 Write differences between AC and DC. (CO-6)  
 Q.22 Explain Kirchhoff voltage law. (CO-1)  
 Q.23 Discuss series combination of capacitance (CO-1)  
 Q.24 Explain maximum power transfer theorem (CO-2)  
 Q.25 Explain super position theorem in brief. (CO-2)  
 Q.26 Write differences between primary and secondary cell. (CO-5)  
 Q.27 Explain the working of solar cell. (CO-5)

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