

SECTION-B

Note: Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11 Differentiate between AC & DC current.
- Q.12 Derive the expression for energy stored in an inductance.
- Q.13 Explain concept of charging of capacitors.
- Q.14 Explain the construction of primary cell.
- Q.15 Explain the circuit with resistance, inductance and capacitance in series.
- Q.16 Explain the working of LED.
- Q.17 Differentiate between mutually induced E.M.F. and dynamically induced E.M.F.
- Q.18 Explain the working of dynamo.

SECTION-C

Note: Long answer type questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 Explain construction & uses of Electromagnets in detail.
- Q.20 Explain charging and discharging of Lead-Acid cell/battery in detail.

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**Level 3 / 2nd. Sem. / DVOC (Ref. & Air Cond.,
Medical Imaging Tech., Auto. Servicing,
ITM, PT, SD, AMT, FP, EMS)
Subject : Basic Electricity**

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short answer type questions. All questions are compulsory (10x1=10)

- Q.1 State Ohm's law.
- Q.2 What is R.M.S. value in A.C. voltage?
- Q.3 Write two uses of Li-Ion battery.
- Q.4 Define current.
- Q.5 Tell the SI unit of voltage.
- Q.6 Tell any two materials used for making Permanent magnets.
- Q.7 What is S.I. unit of Resistance?
- Q.8 What is Electromagnetic Induction?
- Q.9 Two 25-Ohm resistors are connected in series. What is the equivalent resistance of these two resistors?
- Q.10 What is form factor in AC voltage?