

- Q.5 Value of power factor lie between.
 a) 0,2
 b) 0,1
 c) 1,2
 d) -1,1
- Q.6 Tell the unit of inductance.
- Q.7 What is R.M.S value.
- Q.8 Define Q-Factor?
- Q.9 State ohm's law.
- Q.10 Battery is used to store DC (True/False)

SECTION-B

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

- Q.11 Differentiate between AC & DC.
- Q.12 Explain the construction of dry cell.
- Q.13 Define frequency, Peak value, form factor, capacitance phase difference.
- Q.14 Explain kirchhoff's second law with its applications.
- Q.15 Explain the generation & wave shape of AC voltage,
- Q.16 Explain ohm's law ? Give its limitations.
- Q.17 Explain faraday's law electromagnetic induction.
- Q.18 Explain the polarities of an electromagnet & rules for finding them.

SECTION-C

Note: Long answer type questions. Attempt any one question out of two questions. (10x1=10)

- Q.19 Draw & Explain R.L.C series circuit.
- Q.20 What is capacitors its capacity ? Explain the concept of charging & discharging in details.

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Roll No.

(Level 3, Sem. 2nd)

**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 . Attempt all ten questions (10x1=10)

- Q.1 unit of current is .
 a) Ohm's
 b) Ampere
 c) Volt
 d) Henry
- Q.2 L in LED stands for.
 a) Lamp
 b) Light
 c) Zinc
 d) Lower
- Q.3 Filament of a bulb is made up of .
 a) Copper
 b) Iron
 c) Zinc
 d) Tungsten
- Q.4 Value of voltage in domestic sector.
 a) 110V
 b) 230V
 c) 200V
 d) 180V