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DVOC (Level-3) Semester-2nd/Trade- 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 questions. Attempt all ten questions. (10x1=10)

Q.1 State Ohm's law.

Q.2 Define current.

Q.3 Write two uses of Li-Ion battery.

Q.4 Define Magnetic field.

Q.5 Tell the SI unit of voltage.

Q.6 Define Wet Cell.

Q.7 What is S.I. unit of Resistance?

Q.8 Electromagnets are_____.

Q.9 Battery is used to store DC. (True/False)

Q.10 RMS value of AC voltage is_____.

SECTION-B

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

Q.11 Explain the concept of mutally induced E.M.F., its magnitude and direction.

Q.12 Describe the basic methods for maintenance of secondary cell. Two 20-Ohm resistors are connected in series. What is the equivalent resistance of these two resistors?

Q.13 Explain the construction of dry cell.

Q.14 Compare AC voltage with DC voltage.

Q.15 Explain any four methods for care and maintenance of secondary cells.

Q.16 Explain Faraday's second law of induction.

Q.17 Explain the polarities of an electromagnet and rules for finding them.

Q.18 Describe the concept of charging and discharging of cell.

SECTION-C

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

Q.19 Define resistance? List factors on which resistance of a material depend upon? Derive an equation for effective resistance of two resistor connected in series and parallel?

Q.20 Explain charging and discharging of Lead-Acid cell/battery in detail.