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DVOC (Level 4)

1st Sem.

Subject : Basic Electricity

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions. (10x1=10)

Q.1 Tell any two applications of lighting effect of current.

Q.2 Tell the S.I unit of Power.

Q.3 What is mutually Induced EMF?

Q.4 Tell the prime function of electrolyte in Lead Acid cell.

Q.5 What is effect of temperature on resistance?

Q.6 What is peak value in A.C. voltage?

Q.7 Two 50-Ohm resistors are connected in parallel. What is the equivalent resistance of these two resistors?

Q.8 Define voltage?

Q.9 Tell any two uses of Electromagnets.

Q.10 Tell the S.I unit of current.

SECTION-B

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

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

Q.12 Explain the series circuit with resistance and inductance in series.

Q.13 Explain the method to determine magnitude and direction of force on a current carrying conductor.

Q.14 Explain the construction of dry cell.

Q.15 Explain concept of discharging of capacitors.

Q.16 Explain the polarities of an electromagnet and rules for finding them.

Q.17 Explain the principle of Dynamo.

Q.18 Describe any three methods for care and maintenance of secondary cells.

SECTION-C

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

Q.19 Explain Krichhoff's Laws with their applications in detail.

Q.20 Explain various types of capacitors with their uses in electrical circuits in detail.