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Roll No. .....

Level 3, 2nd Sem.

Branch : 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. All Questions are compulsory. (10x1=10)

Q.1 Unit of Energy is _____.

Q.2 What is R.M.S. value in A.C. voltage?

Q.3 Define series circuit.

Q.4 Tube light is used to convert electrical energy into light. (True/False)

Q.5 Define Primary Cell.

Q.6 Tell any two materials used for making Permanent magnets.

Q.7 Unit of capacitor is _____.

Q.8 Two 25-Ohm resistors are connected in parallel. What is the equivalent resistance of these two resistors?

Q.9 _____is the main application of LED.

Q.10 What is from factor in AC voltage?

Section-B

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

Q.11 Two coils connected in series in 12W and connected parallel have a resistance of 6W. Find the equivalent value of resistance.

Q.12 Explain the generation and wave shape of A.C. voltage.

Q.13 What are the applications of LED? Explain in brief.

Q.14 Explain the circuit with resistance and capacitance in series.

Q.15 Explain the concept of charging in capacitor.

Q.16 Explain Kirchhoff's second law with its applications.

Q.17 Describe self-induction.

Q.18 Explain the working of Li-ion battery.

Section-C

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

Q.19 Explain the construction & uses of Electromagnets in detail.

Q.20 What is capacitor and its capacity? Explain the concept of charging and discharging in detail.