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**Time : 2 Hours****DOMESTIC WIRING****Pre-Vocational (Electrical Group)****Subject Code**

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**Total No. Of Questions : 4****(Printed Pages : 3)****Maximum Marks : 40**

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- INSTRUCTION :** (i) Answer each question on a fresh page.  
(ii) Write the serial number of the questions and sub-questions clearly.  
(iii) Figures to the right indicate full marks.  
(iv) All questions are compulsory.  
(v) Draw neat labelled diagrams wherever necessary.

1. (A) Answer the following in *one* word/sentence : 1×2=2  
(i) Name the instrument used to measure power.  
(ii) What is an artificial magnet ?
- (B) Answer the following in brief : 3×2=6  
(i) Explain the construction of Energy meter. Where is Energy meter used ?  
(ii) With a neat labelled circuit diagram explain Megger.
- (C) Answer the following in short : 2×1=2  
(i) Mention any *two* advantages and *two* disadvantages of Distribution system of Domestic wiring.

2. (A) Define the following : 1×2=2
- (i) Self-induction.
  - (ii) Kirchhoff's Voltage law.
- (B) Answer the following in brief : 3×2=6
- (i) What are permanent magnets ? Mention any *two* properties and *two* uses of magnets.
  - (ii) Explain how electric supply comes in our houses from street poles and goes to different consuming points.
- (C) Answer the following in short : 2×1=2
- Draw a neat labelled diagram of 'Tree system' of electrical wiring.
3. (A) Answer in *one or two* words : 1×2=2
- (i) Name the system of wiring where fault location is difficult.
  - (ii) Name the tool which is used to find the gauge of winding wires.
- (B) Answer the following in short : 2×2=4
- (i) Draw a neat labelled diagram of Mallet and explain.
  - (ii) With a neat labelled diagram explain Ball Peen hammer.
- (C) Answer the following in detail : 4×1=4
- (i) Explain the *four* laws of Resistances.

*Or*

- (ii) State Ohm's law. Calculate the value of current through a resistance of 10 ohms, if it is connected across a battery of 1.5 volts.

4. (A) Answer the following questions in brief : 1×2=2
- (i) Why flexible stand is provided for the table lamp ?
  - (ii) What is a series test lamp ?
- (B) Answer the following in brief : 2×2=4
- (i) Explain the construction of Electric Kettle.
  - (ii) Explain the construction of Immersion water heater.
- (C) Answer the following in detail : 4×1=4
- (i) With the help of a neat circuit diagram explain series parallel testing board.

*Or*

- (ii) With a neat diagram explain the necessity of thermostat in Automatic electric iron.