

## Sample Question Paper

Course Name : Diploma in Electrical Engineering/ Electrical Power System

Course Code : EE/ EP

Semester : Fifth

Subject Title : Electric Traction-I

Marks : 100

**12146**

Time: 3 Hours

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**Instructions:**

1. All questions are compulsory.
2. Illustrate your answers with neat sketches wherever necessary.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.

**Q.1 A) Attempt any THREE**

**12 Marks**

- a) List the constituents of supply system.
- b) List the different current collecting gears and their applications
- c) List the special requirements of train lighting.
- d) List the miscellaneous equipment used at control post or switching Station and state the function of each of them.

**Q.1 B) Attempt any ONE**

**06 Marks**

- a) Draw and describe the following catenary:
  - i) Compound Catenary construction
  - ii) Switched Catenary construction
- b) Explain with the help of neat diagram the operation of basic AC Track circuit. Also mention any two function of impedance bond present in it.

**Q.2) Attempt any FOUR**

**16 Marks**

- a) Explain the factors deciding
  - i) Height of contact wire
  - ii) Contact wire gradient
- b) List any four factors and their relative consideration which decide the Location and spacing of substation.
- c) With the help of neat labelled sketch, explain method to obtain unidirectional Polarity in train lighting.
- d) Enlist any four requirements of signaling system.
- e) Give the purpose, location and any two precautions while installing neutral section.

**Q.3) Attempt any FOUR**

**16 Marks**

- a) State the special features of Transformer used in Traction Sub-station with respect to conventional transformer.

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**George Harding (ltd.)**



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