

## 3767

## BOARD DIPLOMA EXAMINATION, (C-09) MARCH/APRIL—2017 DEEE—SIXTH SEMESTER EXAMINATION

## ELECTRICAL TRACTION AND PLC

Time: 3 hours [ Total Marks: 80

## PART—A

 $3 \times 10 = 30$ 

**Instructions**: (1) Answer **all** questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- 1. List any three advantages of electrical traction.
- 2. What is speed-time curve?
- **3.** State the factor which affects the schedule speed.
- **4.** Define coefficient of adhesion.
- **5.** List any three factors affecting the specific energy consumption.
- **6.** Define tractive effort.
- 7. List any three applications of PLC.
- **8.** Draw the ladder diagram for logic AND gate.
- 9. List any three input and three output devices used with PLC.
- **10.** List any three comparison instructions used in PLC.

10
10
5 5
=10
2 8
5:

Instructions: (1) Answer any five questions.

\* /3767 2 AA7(A)—PDF