Register No.:	
295	

April 2023

Time - Three hours (Maximum Marks: 100)

[N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.

2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

- 1. Classify substations.
- 2. Compare radial and ring distribution system.
- 3. Mention any one application area of group drive system.
- 4. What are the features of good braking system?
- 5. Define Average speed of Electric Train.
- 6. State the types of Traction Systems.
- 7. Mention the power ratings of CFL.
- 8. What are the factors to be considered while designing good lighting system?

and exploiting application been present the same

Expected with a secretar their many of industrian for

- 9. Write notes on power supply to arc furnaces.
- 10. What are the advantages of electric heating?

[Turn over....

PART - B

11. (a) Classify the distribution systems based on types of supply, character of service, type of construction.

(Or)

- (b) Explain various types of substations.
- 12. (a) Explain Load duty cycles. How a motor is selected from a given duty cycles?

(Or)

- (b) Explain the necessary Mechanical characteristics needed for the selection of motor.
- 13. (a) Write short notes on Booster transformer connection in Electric Traction and Neutral sectioning.

(Or)

- (b) Explain about the Magnetic Levitation in electric traction.
- 14. (a) State and explain the laws of Illumination.

(Or)

- (b) Explain with a sketch the working of induction lamp.
- 15. (a) Draw and explain direct and indirect arc furnaces with suitable sketches.

(Or)

(b) Explain electron beam welding with neat sketch.
