

309

Register No.:

April 2024

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. State the different types of connection schemes of 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.
6. State the types of Traction Systems.
7. What is Flood Lighting?
8. Write the precautions in erecting lighting installations.
9. What is infrared heating?
10. List the types of radiation welding.

PART – B

11. (a) Discuss the different types of bus bar arrangements.
(Or)
(b) Explain three phase, four wire star connected unbalanced load circuit.
12. (a) Explain the different types of electric drives used in industrial loads.
(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.
14. (a) Explain with a sketch the working of High pressure mercury vapour lamp.
(Or)
(b) Define: (i) MSCP (ii) MHSCP (iii) Space height ratio (iv) Utilisation factor (v) Solids angle (vi) Beam factor (vii) Glare lamp efficiency.
15. (a) Explain dielectric heating with a sketch. State its applications.
(Or)
(b) Draw and explain direct and indirect arc furnaces with suitable sketches.
