

Register No.:

367

October 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. Mention the types of electrical power distribution system.
2. What is the use of transformer in Substation?
3. What is meant by rating of motor?
4. List the types of braking.
5. Define schedule speed.
6. What are the advantages of electric tractions?
7. What is Flood Lighting?
8. Write the precautions in erecting lighting installations.
9. What is high frequency electric heating?
10. Write notes on electric welding.

PART - B

11. (a) Discuss the different types of Bus bar arrangements.
(Or)
(b) Explain about primary and secondary distribution system.
12. (a) Explain about the application of regenerative braking in DC shunt motor and DC series motor.
(Or)
(b) Explain different current collectors used in electric traction.
13. (a) Derive the basic principles for the crest speed using Trapezoidal speed time curve. State all your assumptions clearly with relevant units.
(Or)
(b) Explain multiple unit controller.
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) Explain LASER Beam welding with a sketch.
