

193

Register No.:

November 2022

Time - Three hours
(Maximum Marks: 75)

- [N.B.]
1. Q.No. 8 in PART - A and Q.No. 16 in PART - B are compulsory. Answer any FOUR questions from the remaining in each PART - A and PART - B.
 2. Answer division (a) or division (b) of each question in PART - C.
 3. Each question carries 2 marks in PART - A, 3 marks in Part - B and 10 marks in PART - C.]

PART - A

1. Name any two methods of measuring earth resistance.
2. Who is authorized person?
3. Define insulation co-ordination.
4. Why automatic voltage regulator is provided in alternator?
5. Define instability in alternator.
6. Why drying out is necessary in motor?
7. What is meant by insulation level?
8. Define inrush current.

PART - B

9. What are the points to be checked in switches and fuses?
10. Define ELCB.
11. What is the reason for temperature rise in transformers?
12. What are the forces generated in transformer during shortcircuit?
13. Mention the productive and indication equipment for alternator.
14. State any three-attention required for the contact of contactor.
15. What are the causes of lowering of illumination level?
16. What are the causes for low insulation resistance and rectification?

[Turn over.....

PART - C

17. (a) Explain the measurement of earth resistance using megger earth tester.
(Or)
(b) Explain procedure for special shutdown in substations and power house.
18. (a) Explain the action to be taken while transformer oil, temperature rises unduly in the transformers.
(Or)
(b) Explain the points to be checked if the oil level tends to fall down.
19. (a) Explain the special precaution necessary for parallel operation of alternators.
(Or)
(b) How to calculate the short circuit level at any point on a distribution system? Explain.
20. (a) Explain various enclosures used in electric motors.
(Or)
(b) Explain in detail the problem occurring in bearings.
21. (a) Describe the various steps in designing a lighting installation.
(Or)
(b) Explain the precautions necessary in erecting UG cable.
