

EEM62 - Operation & Maintenance of Electrical Equipment

742

REG. NO

OCTOBER 2021

Time: Three hours

Maximum Marks: 75

- Note:
1. Answer ALL the questions in PART-A (1 mark each)
 2. Answer any ONE question from each unit in PART-B (3 marks each)
 3. Answer any ONE question from each unit in PART-C (10 marks each)
 4. The question paper contains TWO Pages

PART-A (1x10=10)

1. What is Earthing?
2. Expand ELCB.
3. Name any one force generated in transformer.
4. Mention any one method of oil purification.
5. State any one necessity of reverse current protection.
6. State any one cause for alternator fails to buildup voltage.
7. How will you change the direction of rotation of 3 phase motor?
8. Mention any one type of enclosure.
9. What is the permissible limit for variation of frequency as per IS standard?
10. State any one symptom to identify the end of the useful life of lamp.

PART-B (3x5=15)

UNIT-I

11. What is the procedure for shutdown?
12. Mention points to be inspected in portable equipments.

UNIT-II

13. What is inrush current?
14. What is the effect on insulation during star point earthing?

UNIT-III

15. What are the differences between Isolator and Circuit Breaker?
16. Mention the conditions for paralleling of alternator.

UNIT-IV

17. What is the role of single phase preventer?
18. What is the role of relay in motor?

UNIT-V

19. State the causes of lowering illumination level.
20. What is the purpose of continuous earth wire?

PART-C (10x5=50)

UNIT-I

21. Explain briefly about different types of fire extinguisher.
22. Write about the procedure of earthing.

UNIT-II

23. Write about the precautions for paralleling transformer.
24. Write about the points to be checked by oil level tends to fall down.

UNIT-III

25. State the role of Automatic Voltage Regulator (AVR).
26. Explain about the maintenance of SF6 circuit breaker.

UNIT-IV

27. Explain the steps to be taken when the motor is unduly hot.
28. Explain Static and dynamic balancing of motors.

UNIT-V

29. What is stroboscopic effect? What are the methods to reduce it?
30. Explain the precautions in erecting underground cables.
