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Question Paper Code: 49304

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Elective

Electrical and Electronics Engineering

14UEE908- OPERATION AND MAINTENANCE OF ELECTRICAL EQUIPMENTS

(Regulation 2014)

Duration: 1.45 hrs

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. What are the precautions to be taken before starting work on electrical installations?
2. What are different types of busbar arrangement Schemes in Substations?
3. List out the various schedules of maintenance done on transformers?
4. Why cables are not used for long distance transmission?
5. What is Preventive Maintenance?
6. What are different types of busbar arrangement Schemes in Substations?
7. List out the various schedules of maintenance done on transformers?
8. What should be the minimum spacing between conductors?
9. What is the function of starters in DC motor?
10. What are the precautions to be taken before starting work on electrical installations?
11. Point out the sequence of operation of Isolator, Circuit-breaker and Earthing switch while closing?
12. How long should the drying-out operation of transformer be continued?

13. What should be the minimum spacing between conductors?

14. What will be the starting torque of a synchronous motor?

15. Define Tap changing transformers

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. State the precautions to be taken while maintaining and testing electrical equipment (10)
17. Explain the classification of substation according to application (10)
18. What is an impulse voltage? Explain how it is possible to generate such a very high voltage, making use of DC generators and describe the procedure for an impulse test of a transformer (10)
19. Explain the special precautions to be taken when power lines have to cross railway tracks. (10)
20. List the essentials of good maintenance. Point out the main points to be attended to in periodical maintenance of motors. Also indicate at what intervals should motors be examined (10)