



C14-EE-506

4641

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2016

DEEE—FIFTH SEMESTER EXAMINATION

MAINTENANCE OF ELECTRICAL EQUIPMENTS

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. State the different meters required for testing electrical equipments. 1+1+1=3
2. State the internal parts of Mixie. $\frac{1}{2} \times 6 = 3$
3. State the principle of operation of electric oven. 3
4. List the devices used to suppress spikes in supply voltage. 1+1+1=3
5. State the need of maintenance of electrical systems. 3
6. List the aspects to be followed while checking the rotor winding. 1+1+1=3
7. Write any three periodical maintenances of minimum oil circuit-breaker. 1+1+1=3

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8. State the need of safety. 3
9. List any three types of equipment used for electrical and general safety purpose. 1+1+1=3
10. Write the different types of electric hazards. 1+1+1=3

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain the construction and working of immersion water heater. 5+5=10
12. Explain the working and dismantling steps of ceiling fan. 5+5=10
13. Explain the working of on-line preferred UPS with a neat diagram. 5+5=10
14. Explain the preventive and periodical maintenance schedule of power transformer. 5+5=10
15. Explain the preventive and periodical maintenance schedule of air conditioner. 5+5=10
16. Explain the preventive and periodical maintenance schedule of SF₆ circuit-breaker. 5+5=10
17. Explain the methods to avoid electrical hazards.
18. Write any five do's and don'ts of electric supervisor at substation. 5+5=10
