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.   ½×6=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

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. Exlplain 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 SF_6 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

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