



C14-EE-506

4641

BOARD DIPLOMA EXAMINATION, (C-14)
SEPTEMBER/OCTOBER - 2020
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. Draw the electrical wiring diagram of water heater.
2. List the tools required to repair domestic appliances.
3. State the working principle of electric kettle.
4. List the storage batteries used in UPS.
5. Give the preventive maintenance schedule of Induction motor.
6. Give the periodical maintenance schedule of Wet batteries.
7. Give the preventive maintenance of inverter.

- * 8. List the equipment used for general safety purpose.
9. List the Dont's of electrical supervisor at substations.
10. State the need of safety.

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. List the steps involved in dismantling and assembling of geyser.
12. Give the testing procedure for automatic electric iron.
13. (a) Explain the working of an off-line UPS with block diagram. 5
(b) Draw the circuit of SMPS using SMPS IC (TL497). 5
14. Give the preventive and periodical maintenance schedule of the air blast circuit breaker.
15. Give the preventive and periodical maintenance schedule of the AC motors.
16. Give the preventive and periodical maintenance schedule of the batteries dry.
- * 17. Explain the causes of different electrical hazards/accidents.
18. Explain the first-aid methods followed to rescue a person met with electric shock.
