



C14-EE-506

**4638**

**BOARD DIPLOMA EXAMINATION, (C-14)**

MARCH / APRIL - 2019

**DEEE - V SEMESTER EXAMINATION**

**MAINTENANCE OF ELECTRICAL SYSTEMS**

Time : 3 Hours]

[Total Marks : 80

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**PART - A**

**3×10=30**

**Instructions :**

- (1) Answer **ALL** questions.
- (2) Each question carries **THREE** marks.
- (3) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1 What are the precautions to be taken while testing and repair of automatic electric iron ?
- 2 Write short notes on Earth or leakage test of Geyser using series test lamp.
- 3 List any six types of meters required for testing domestic appliances.
- 4 Write any six advantages of SMPS.
- 5 State the need of maintenance of electrical power devices.
- 6 Give any three tasks that have to be undertaken in the preventive weekly periodical maintenance of motor.
- 7 Give any three tasks that have to be undertaken in the preventive daily periodical maintenance of power transformer.
- 8 List any six types of equipments used for electrical and general purpose safety.
- 9 Write any six benefits of safety.
- 10 Write any six causes of electrical hazards.

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[ Contd...

**PART - B****10×5=50**

- Instructions :**
- (1) Answer any **FIVE** questions.
  - (2) Each question carries **TEN** marks.
  - (3) Answer 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 Electric Kettle.
- 12 (a) List the steps involved in dismantling and assembling of Ceiling Fan. **5**
- (b) Identify the faults of Immersion Water Heater and mention the corrective measures to be taken. **5**
- 13 Explain the different types of disturbances in commercial power supply.
- 14 Explain the preventive periodical maintenance schedule of Batteries.
- 15 Write about the preventive periodical maintenance schedule of plinth mounted transformer.
- 16 Write about the preventive periodical maintenance schedule of SF6 circuit breakers.
- 17 Write any ten Do's and Dont's of electrical supervisors at substations.
- 18 (a) Explain the operation of Soda Acid fire extinguisher. **5**
- (b) Explain the operation of Chemical Foam fire extinguisher. **5**