



C14-EE-506

4641

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2017

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. List the tools used for testing of electrical equipment. 1+1+1
2. State the internal parts of toaster. 1+1+1
3. State the working principle of electric geyser. 3
4. State the need of UPS. 3
5. State the necessity of maintenance. 3
6. Define air blast circuit breaker and mention its maintenance steps. 1+1+1
7. State the reasons behind vibratory motion in motors. 1+1+1

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8. What is the <sup>\*</sup> significance of safety? 3
9. State any three safety equipments. 1+1+1
10. What is meant by first aid? 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. State any five first-aid materials and state their uses. 5+5
12. State the effect of the shock and electrocution. 5+5
13. Explain the maintenance of batteries. 10
14. Explain the maintenance of UPS. 10
15. Explain the maintenance of plinth mounted transformers and its yard. 10
- \* 16. Draw the block diagram of online-UPS and explain. 4+6
17. Explain the troubleshooting and rectifying the faults of electric iron. 5+5
18. Explain the troubleshooting and rectifying the faults of electric kettle. 5+5

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