



C14-EE-506

4641

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2017

DEEE—FIFTH SEMESTER EXAMINATION

MAINTENANCE OF ELECTRICAL EQUIPMENTS

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

1. List any six parts of an electric oven.  $\frac{1}{2} \times 6 = 3$

2. List any six parts of toaster.  $\frac{1}{2} \times 6 = 3$

3. Draw a labelled connection diagram of a.c. ceiling fan with regulator. 3

4. List the advantages of SMPS.  $1+1+1=3$

5. Write a brief note on commutator maintenance. 3

6. List the problems of an induction motor winding overheating.  $1+1+1=3$

7. List any three tasks that have to be undertaken in the preventive maintenance of lighting arresters.  $1+1+1=3$

- \* 8. List the equipments used for electrical and general safety. 1+1+1=3
9. List the applications of class-B fire extinguishers. 1+1+1=3
10. What is the necessity of safety? 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. List the steps involved in dismantling and assembling of immersion water heater. 5+5=10
12. Explain steps for locating faults in an electric iron with circuit diagrams. 10
13. Explain the block diagram of UPS and explain the function of each block. 5+5=10
14. (a) Explain the preventive periodical maintenance schedule for motor starters. 5
- (b) Explain the preventive periodical maintenance schedule for air conditioners. 5
15. Explain the preventive and periodical maintenance schedule of plinth mounted transformer yard and power transformer. 5+5=10
16. Explain the preventive and periodical maintenance schedule for SF<sub>6</sub> circuit breakers. 10
- \* 17. Explain the Do's and Don'ts of electrical supervisor at substations. 5+5=10
18. (a) State various types of fire extinguishers. 5
- (b) List any five causes of electrical hazards. 5

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