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C14-EE-506

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DEEE - FIFTH SEMESTER EXAMINATION**

MAINTENANCE OF ELECTRICAL SYSTEMS

Time : 3 Hours]

[Total Marks: 80

PART-A

3X10=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. List any six types of tools required for testing and repair of domestic appliances.
2. State the principle of operation of ceiling fan.
3. Draw the electrical wiring diagram of mixer.
4. What are the different disturbances in power supply?
5. State the need of maintenance of electrical systems.
6. What is meant by the term preventive maintenance?
7. List any three tasks that have to be undertaken in the preventive periodical maintenance of relays.
8. What are the causes of different electrical hazards?
9. What are the equipment's used for electrical and general safety purpose?
10. Name various types of fire extinguishers.

PART-B

10X5=50

- Instructions** : *
1. Answer any **Five** questions.
 2. Each question carries **ten** marks.

11. Explain the construction and working of automatic electric iron.
12. Explain the testing procedure and steps involved in dismantling and assembling of electric kettle.
13. Explain the working of SMPS with the help of a block diagram.
14. Explain the preventive and periodical maintenance schedule of DC and AC motors.
15. Explain the preventive and periodical maintenance schedule of power transformer.
16. (a) State the requirements of an effective maintenance program
(b) Explain preventive and periodical maintenance of UPS.
17. List the DO's and DONT's of electrical supervisor at substations.
18. (a) Explain the operation of soda acid type fire extinguishers.
(b) Classify different types of fires.

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