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C14-EC-106

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BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2021

DECE - FIRST YEAR EXAMINATION

ELECTRONICS ENGINEERING MATERIALS AND PRACTICES

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

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

1. List the differences between Conductors and Semi-Conductors.
2. What is the use of Gold in electronic Industry?
3. Classify Magnetic materials.
- * 4. List the applications of Super Graphene.
5. List different types of hammers.
6. List the hand tools used in workshop.
7. Define Soldering.
8. What are the advantages of Adhesives?
9. List the desirable mechanical properties of metals.
10. What are the reasons for electric shock?

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PART—B

15×4=60

- Instructions :** (1) Answer *any four* questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Write the electrical Properties of Copper.
12. Explain the Ceramic materials in Electronics.
13. Explain how the Soft Magnetic materials are used in transformers.
14. Explain the super conductivity phenomenon.
15. What are the bolts and Nuts used in Machines in Workshop?
16. Explain the process of Welding in detail.
17. Explain the properties of (i) Hardness (ii) Brittleness of the metals.
18. What are the causes of Fire and Fire accidents in Industries? Explain.

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