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C14-EC-602

4736

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2021

DECE - SIXTH SEMESTER EXAMINATION

INDUSTRIAL ELECTRONICS

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. Draw the circuit symbols of triac and diac.
2. List the applications of SMPS.
3. Classify the transducers on the basis of principle of operation.
- * 4. List the applications of tacho generators.
5. Classify industrial heating methods.
6. List the applications of resistance welding.
7. Draw any two ladder network logic symbols.
8. List types of PLCs.
9. Classify control systems.
10. Define Transfer function.

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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. Explain the VI characteristics of SCR.
12. Draw the block diagram of offline UPS and explain.
13. Explain the working of LVDT.
14. Explain the working of strain gauge.
15. Draw the circuit of HF power source for induction heating and explain.
16. Explain the principle of induction heating.
17. Explain the PLC scan method.
18. Explain the basic block diagram of control system.

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