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BOARD DIPLOMA EXAMINATION, (C-16)

JUNE/JULY-2022

DECE - FIFTH SEMESTER EXAMINATION

INDUSTRIAL ELECTRONICS

Time : 3 hours]

PART-A

[Total Marks : 80

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. Write any three differences between SCS and LASCR.
- **2.** Define intrinsic stand-off ratio of UJT.
- **3.** List any three applications of SMPS.
- 4. State the need of inverters.
- **5.** Define magnetostriction effect.
- 6. List different resistive and capacitive transducers.
- 7. List different industrial heating methods.
- **8.** Define welding.
- 9. State the need for industrial automation.
- **10.** Define transfer function of control system.

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3×10=30

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Instructions : (1) Answer any **five** questions.

- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- 11. Explain the construction and working of GTO SCR.
- **12.** Explain the construction and working of DIAC and draw its VI characteristics.
- **13.** Explain SCR triggering using UJT.
- 14. Draw and explain the block diagram of online UPS.
- 15. Explain the construction and working of LVDT.
- **16.** Explain the construction and working of pulsed echo ultrasonic flaw detector.
- 17. Draw and explain the working of AC resistance welding system.
- 18. Explain the working of PLC system with a block diagram.

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