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BOARD DIPLOMA EXAMINATION

JUNE - 2019

DIPLOMA IN ELECTRONICS AND COMMUNICATION ENGINEERING INDUSTRIAL ELECTRONICS FIFTH SEMESTER EXAMINATION

Time: 3 Hours Total Marks: 80

PART - A $(3m \times 10 = 30m)$

Note 1:Answer all questions and each question carries 3 marks

2:Answers should be brief and straight to the point and shall not exceed 5 simple sentences

- 1. Draw the circuit symbols of GTOSCR, SUS, SCS?
- 2. Define intrinsic stand-off ratio of UJT.
- 3. Write any 3 applications of UPS?
- 4. Draw the output voltage waveforms of Sinusoidal pulse width modulation inverter?
- 5. Explain magnetostriction effect.
- 6. Write any three disadvantages of LVDT?
- 7. What is the principle of induction heating?
- 8. Draw the block diagram of a resistance welding system that uses sequence timer
- 9. Write any three features of open loop control system?
- 10. Define transfer function.

PART - B $(10m \times 5 = 50m)$

Note 1:Answer any five questions and each carries 10 marks

- 2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer
- 11. Explain about construction and working of Uni Junction Transistor?
- 12. Explain the working of SCR using two transistor analogy?
- 13. Explain about the speed control of D.C Motor using single Phase half wave SCR rectifier?
- 14. Explain the working of MOSFET based Inverter circuit?
- 15. Explain the construction and working of LVDT?

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16. Explain the construction and working of magnetostriction oscillator and how ultrasonics are generated?

- 17. Explain the basic circuit of AC resistance welding and explain its working?
- 18. Explain an closed loop control system with any two examples

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