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**BOARD DIPLOMA EXAMINATION, (C-14)**  
**MARCH/APRIL-2019**  
**DECE - SIXTH SEMESTER EXAMINATION**  
INDUSTRIAL ELECTRONICS

Time: 3 Hours]

[Max. Marks: 80

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**PART - A****3x10=30M**

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

- 1) Mention any three ratings of SCR.
- 2) Compare LASCR and SCR in any three aspects.
- 3) State the applications of potentiometric Transducer and LDVT.
- 4) Write the principle of generation of Ultrasonic waves.
- 5) Write any three applications of Dielectric heating.
- 6) State the application of Resistive Welding.
- 7) Define statement list and ladder logic.
- 8) List any three types of PLCs.
- 9) Mention any three examples for open loop control system.
- 10) Define Transfer function.

**PART-B**

**5x10=50M**

- Instructions:*** 1) Answer any **five** questions.  
2) Each question carries **ten** marks.  
3) The answer should be comprehensive and the criterion for valuation is the Content but not the length of the answer.

- 11) Explain the construction and working of DIAC.
- 12) Explain the working of Servo stabilizer with a neat circuit diagram.
- 13) Explain the construction and working principle of Potentiometric Transducer.
- 14) Explain the construction and working principle of LVDT.
- 15) Explain the electrodes used in dielectric heating and method of coupling to RF Generator.
- 16) Draw the basic circuit of AC Resistive Welding and explain its working.
- 17) Explain (a) Ladder diagrams and (b) Control systems folw charts.
- 18) Explain the Closed loop Contorl system with the help of a block diagram.

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