

Question Paper Code : 21474

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Eighth Semester

Mechatronics Engineering

EC 3016 — INDUSTRIAL ELECTRONICS AND APPLICATIONS

(Regulations 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List any four process control systems.
2. What is the need for actuator?
3. Write the difference between displacement factor and power factor of a full converter circuit.
4. What are the demerits of Current Source Inverter?
5. Write the applications of Servo motor.
6. List the merits of solid state motor control.
7. Write the principle of operation of a solid state relay.
8. What is resistance welding?
9. Name the process variables of flow control.
10. Write the conditions that minimize the effectiveness of feedback control.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the classification of Industrial control system with necessary diagrams. (8)
- (ii) Illustrate the need for feed forward control. (8)

Or

- (b) Describe the industrial control application of operational amplifier and photo transistor. (16)

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