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Reg.	No

Maximum: 100 Marks

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch: Applied Electronics and Instrumentation Engineering

COMPUTERISED PROCESS CONTROL (A)

(Old Scheme—Prior to 2010 Admissions—Supplementary/Mercy Chance)

Time: Three Hours

Part A

Answer all questions. Each question carries 4 marks.

- 1. Explain the types of programmable logic device.
- 2. Write a note on programmable array logic.
- 3. Explain microprocessor based PLCs.
- 4. Differentiate sequential and combinatorial logic controllers.
- 5. Write a short note on cost estimating.
- 6. Explain flow sheet symbols.
- 7. Explain the advantages of fiber.
- 8. Explain TOP.
- 9. Explain operator interfaces.
- 10. Write short note on noises present in communication systems.

 $(10 \times 4 = 40 \text{ marks})$

Part B

Answer all questions.
Each question carries 12 marks.

11. (a) Explain the design of programmable logic array.

Or

- (b) Explain basic concepts of programmable logic devices. Explain programming technologies.
- 12. (a) Explain the design of combinatorial logic controllers.

Or

(b) Explain PLC programming languages.



Turn over

13. (a) Explain the operation of CRT with a diagram.

Or

- (b) Write short notes on (i) data highways; (ii) field buses; (iii) multiplexers.
- .14. (a) Explain the tasks and configurations of supervisory computers.

Or

- (b) Explain the optical local area networks.
- 15. (a) With a neat sketch explain communication systems.

Or

(b) Explain Allen Bradley protocol.

 $(5 \times 12 = 60 \text{ marks})$

