R09

Code: 9A10701

B.Tech IV Year I Semester (R09) Regular & Supplementary Examinations December 2015
AUTOMATION OF INDUSTRIAL PROCESSES
(Electronics & Instrumentation Engineering)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

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1 (a) Discuss the various elements of computer controlled processes with suitable diagrams.
   (b) With a block diagram, explain the hierarchical control system.

2   Explain the communication models in distributed control systems.

3   Discuss the various design considerations in a controller design.

4   Compare the deadbeat and Dahlin's algorithms.

5   Discuss the examples for feed forward controller.

6   Explain the features of adaptive control systems and discuss the parameters and adjustment
        mechanisms.

7   Discuss any two intelligent control systems with suitable examples.

8   Discuss the architecture and selection of the programmable logic controllers.

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