Instrumentation – 2nd Examination – 3rd February 2011

1. Sketch a block diagram of a Closed Loop Control System.
2. What is the difference between an open loop and a closed loop control system?
3. List 3 examples of open loop control systems and 3 examples of closed loop control systems.
4. What is the difference between a 2-state controller and a linear controller?
5. What is the purpose of a differential in an ON/OFF controller?
6. What does PID mean?
7. Which are the PID tuning parameters?
8. List 3 evaluation parameters for a transient response.
9. List 3 different flow meters. Sketch one of them, and explain how it works.
10. What is a Transfer Function?

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