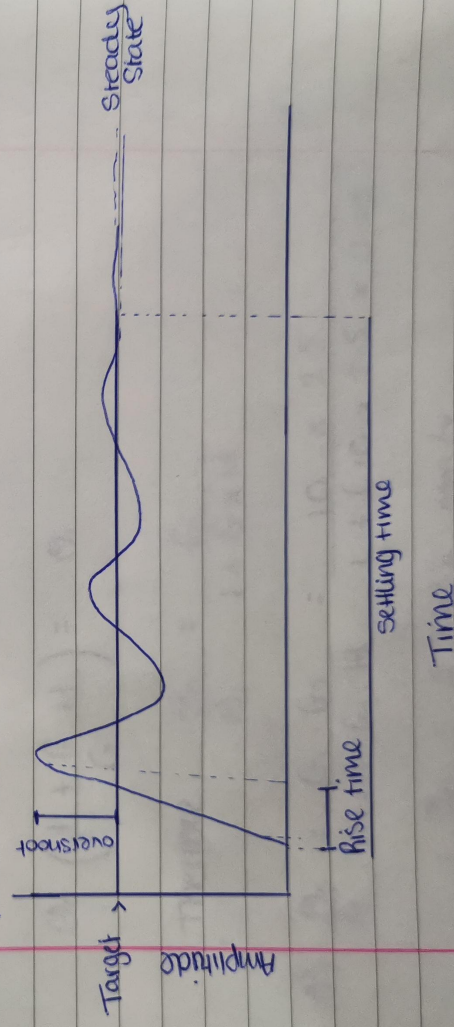


Q2

a) A control system is a system which can output the desired response by controlling it. There are two types, an open loop control system and a closed loop control system. By automatically controlling the process it can automatically deal with system disturbance with no human intervention if it is a closed loop control system compared to an open loop control system.

b) A proportional - integral - derivative controller is a control loop device used to send feedback.



A PID continuously calculate an error value as the difference between the desired target or setpoint and corrects using PID terms.

A PID can be used to regulate temperature in a blast furnace.