

Process Control Quiz (1)

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* أكتب أسمك بالعربي لو سمحت



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* Write your seat number in English please

7997

Answer the following Questions

* Process control aims to reduce **variability** in

PV ☒

MV ☐

PID ☐

PLC ☐



- * a user interface or screen that presents process data to human operators, in the control room, and through which the operator can control the process

DCS ☐PLC ☐HMI ☒PV ☐

- * control aims to compensate for effects of disturbances through changes in manipulated variables

Regulatory ☒Servo ☐Regulatory and Servo ☐no correct answer ☐

- * the control functionality are distributed among several Control Processors (CP) throughout the entire site in

DCS ☒PLC ☐HMI ☐PID ☐

* The larger the time delay in the control loop, the

- A. More stable the system ☐
- B. Less stable the system ☐
- C. More the overshoot ☐
- D. B and C ☒

Answer the following questions

* .The time constant t determines theof the response•

- speed ☒
- overshot ☐
- transit time ☐
- stability ☐

* The transfer function $G(s)=e^{-3s}/(10s+1)$ has a gain and time delay of, respectively

- A. 3 and 10 ☐
- B. 10 and 3 ☐
- C. 1 and 3 ☒
- D. 3 and 1 ☐



* process output keeps increasing very rapidly without reaching equilibrium

- Runaway ☒
- Integrating ☐
- Dead time ☐
- Second order ☐

* A standard transmitter output range is

- 4-20mA ☒
- 0-40mA ☐
- 4-20A ☐
- 0-1mA ☐

* If time constant is negative, the process is

- stable ☐
- unstable ☒
- usual ☐
- oscillating ☐

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