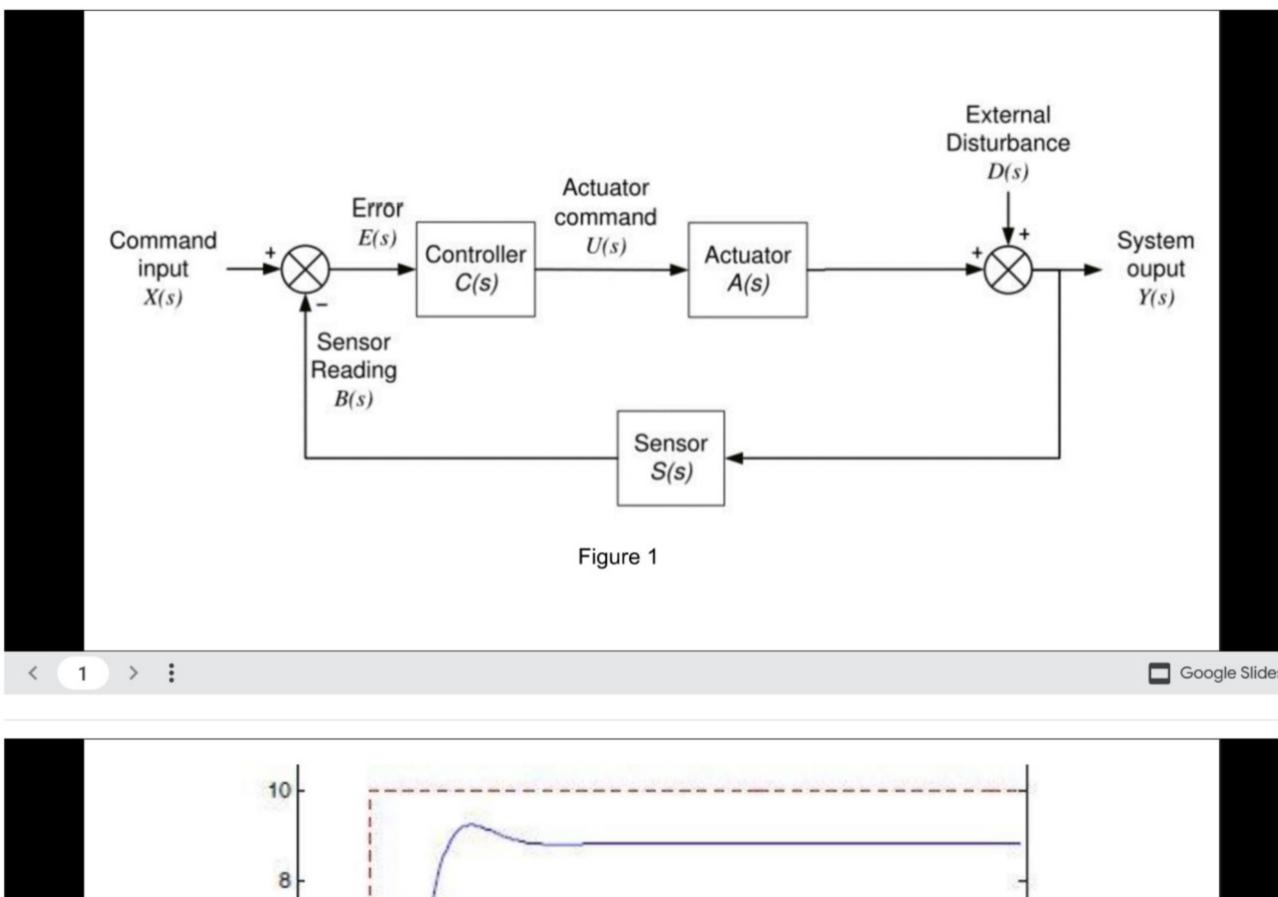
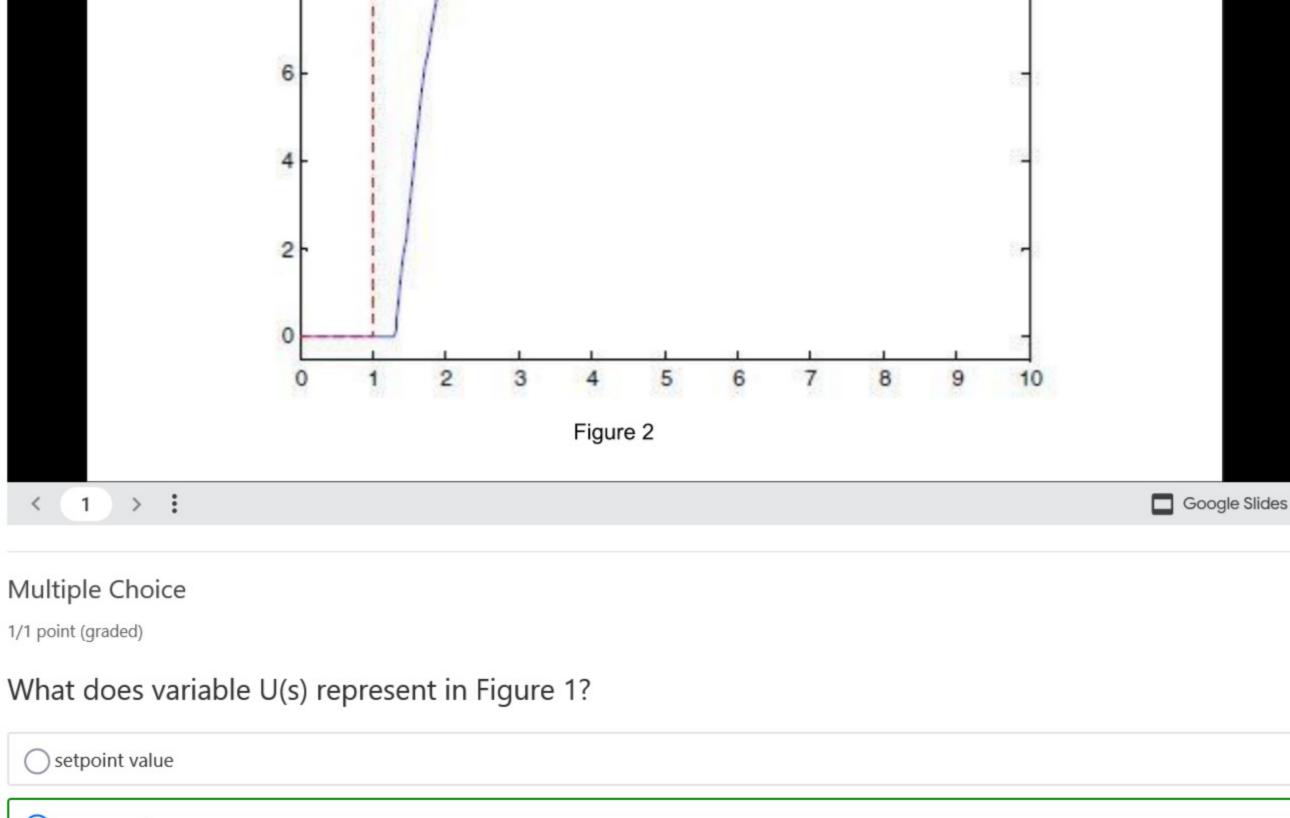
Quiz 4

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You Need the following figure 1 & 2 in the MCQ

IMPORTANT • Each Question carries 1 mark and you will get 1 attempt each. Total 10 Marks





Submit

the time constant of the integral term the time constant of the derivative term the constant of proportionality

 $rac{U(S)}{E(S)} = rac{K_P + K_I}{S + K_D S} = rac{K_P S + K_I + K_D S^2}{S}$

Submit **Show Answer**

In a PID system if the gain K= 2, and oscillation period is 3 then what wil be the value of Kp,Ki and Kd?

Multiple Choice

✓ Power amplification

Submit **Show Answer** Multiple Choice

In Figure 2 the red line represents a reference (setpoint) input to a closed system. The measured

process value is shown in blue. What type of controller is used in this application?

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Which of the following applications would not benefit from a PID controller

Odynamic error component error frequency Steady-State Error

For most control applications, a simple proportional control algorithm after the system has stabilized

A PID controller generates the process value (u) by looking at...

Next >

process value process input) none of the above Multiple Choice 1/1 point (graded) What does K_P represent?) the time constant of the proportional term

Submit Multiple Choice 1/1 point (graded)

○ kp=1.2 ,Ki= .67 kd= .472

none of the above

kp=1.2 ,Ki= .45 kd= .943 o kp=1.2 ,Ki= .67 kd= .375 kp=1.2 ,Ki= .38 kd= .575

Multiple Choice 1/1 point (graded) A simple proportional control algorithm differs from a PID controller by not looking at

The present

The past

The Future

The Past and Future All the above

Submit

Percentage of final value exceeded at first oscillation is called rise time overshoot

settling time

Submit

1/1 point (graded)

Multiple Choice 1/1 point (graded)

Feedback measurement

Characteristics of Feedback System

✓ Controller

Multiple Choice

1/1 point (graded)

Submit

Graph

Error signal

P O PI

O PID

O PD

control of temperature

speed

) flow rate

none of the above

) motor control

1/1 point (graded)

Multiple Choice 1/1 point (graded)

will always have a...

) dynamic error component

Submit

Multiple Choice

1/1 point (graded)

The present

The past

The Future all of the above

Submit

Previous

Show Answer

Google Slides

Google Slides

Show Answer

Show Answer

Show Answer

Show Answer

Show Answer

Show Answer

Show Answer