

Easy

Assistant Engineer (Electrical), Class 2025

Building Department

What is the need for a controller?

A

Receive control signals

B

Transmit control signals

C

Modify control signals

Correct

D

Create control signals

Correct Answer: C

Full Detailed Explanation

Concept & Reasoning In a feedback loop, the comparator forms error between reference and measured output. The controller applies a control law P , PI , PD , PID , state feedback, etc. to transform that error into a suitable actuator command. Its purpose is not merely to receive or transmit a signal; it deliberately shapes system behavior.

How to Solve It in the Exam Controller = signal-shaping decision element. Important Exam Point Think performance: accuracy, speed, damping, robustness.

Related Revision Path This question sits in the revision path Control Systems → Controllers → Role of Controller .

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