

Quiz 01

Course: Embedded control system

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Duration: 10 min

First Name		Last name
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Questions	Responses	
1. A closed-loop control system uses a measurement of the output and a feedback of the signal to compare it with the desired input.	True	False
2. Engineering synthesis and engineering analysis are the same.	True	False
3. The block diagram in below is an example of a closed-loop feedback system:	True	False
<p>diag73.svg</p>		
4. A multi-variable system is a system with more than one input and/or more than one output.	True	False
5. Important modern applications of control systems include which of the following?	a	
a. Safe automobiles	b	
b. Autonomous robots	c	
c. Automated manufacturing	d	
d. All of the above		
6. Complete the following sentence: Control of an industrial process by automatic rather than manual means is often called.	a	
a. negative feedback	b	
b. automation	c	
c. a design gap	d	
d. a specification		
7. Complete the following sentence: Control engineers are concerned with understanding and controlling segments of their environments, often called.	a	
a. systems	b	
	c	
	d	

Questions	Responses	
<ul style="list-style-type: none"> b. design synthesis c. trade-offs d. risk 		
<p>8. Complete the following sentence:</p> <p>An open-loop control system utilizes an actuating device to control a process.</p> <ul style="list-style-type: none"> a. without using feedback b. using feedback c. in engineering design d. in engineering synthesis 	<ul style="list-style-type: none"> a b c d 	
<p>9. Control engineering is applicable to which fields of engineering?</p> <ul style="list-style-type: none"> a. Mechanical and aerospace b. Electrical and biomedical c. Chemical and environmental d. All of the above 	<ul style="list-style-type: none"> a b c d 	
<p>10. Closed-loop control systems should have which of the following properties:</p> <ul style="list-style-type: none"> a. Good regulation against disturbances b. Desirable responses to commands c. Low sensitivity to changes in the plant parameters d. All of the above 	<ul style="list-style-type: none"> a b c d 	