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## Control Systems MCQ Test

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### Control Systems MCQ

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Below is the **Control Systems MCQ** test that checks your basic knowledge of Control Systems. This **Control Systems MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the Take **Control Systems** Quiz Button.

1. The ratio of output to input is.....at resonance peak.

- ☐ Highest  
☐ Zero  
☐ Lowest  
☐ None of the Above

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**Highest**

2. What happens If gain of the system is increased?

- ☐ Roots move away from the poles  
☐ Roots move away from the zeros  
☐ Roots move towards the origin of the S-plot  
☐ None of the above

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**Roots move away from the poles**

3. The system will be ..... for unity damping factor?

- ☐ Over damped  
☐ Under damped  
☐ Critically damped  
☐ None of the above

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**Critically damped**

4. Source power is modulated with ..... in a closed loop system.

- ☐ Reference signal  
☐ Error signal  
☐ Actuating signal  
☐ Feed back signal

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**Error signal**

5. Which of the following is the liner differential transformer?

- ☐ Electrical device  
☐ Electrostatic device  
☐ Electromagnetic device  
☐ Electromechanical device

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[View Answer](#)

**Electromechanical device**

6. Which of the following option is an example of an open loop system?

- ☐ Household Refrigerator  
☐ Respiratory system of an animal  
☐ Execution of program by computer  
☐ None of the above

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**Execution of program by computer**

7. The output of the feedback control system must be a function of .....

- ☐ Reference input  
☐ Reference output  
☐ Input and feedback signal  
☐ Output and feedback signal

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**Input and feedback signal**

8. Which of the following option is correct about Signal flow graphs?

- ☐ They apply to linear systems  
☐ Arrows are not important in the graph  
☐ They cannot be converted back to block diagram  
☐ None of the above

[View Answer](#)

**They apply to linear systems**

9. Does feedback can always reduce the effects of noise and disturbance on system performance?

- ☐ Yes  
☐ No

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**Yes**

10. Which of the following is the major components of a controller?

- ☐ Feedback element  
☐ Control element  
☐ Error detector and control element  
☐ Error detector and feedback element

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**Error detector and control element**

11. Low power DC and AC motors are also known as -

- ☐ A.C. generators  
☐ D.C. generators  
☐ Servomotors  
☐ Tachogenerators

[View Answer](#)

**Servomotors**

12. Series circuits work on both hydraulic and pneumatic actuators. Ture or False?

- ☐ True  
☐ False

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**True**

13. SPICE stands for?

- ☐ Stimulated program with integrated circuit arrangement.  
☐ Sequential program with integrated circuit analysis.  
☐ Simulated program with integrated circuit analysis.  
☐ None of the above

[View Answer](#)

**Simulated program with integrated circuit analysis.**

14. Which of the following option is also known as anticipatory controller?

- ☐ Derivative controller  
☐ Proportional controller  
☐ Integral controller  
☐ None of the above

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**Derivative controller**

15. Transfer function of a control system is depend on

- ☐ Nature of output.  
☐ Nature of input.  
☐ System parameters alone.  
☐ Initial conditions of input and output.

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[View Answer](#)

**System parameters alone.**

16. When the system gain is doubled the gain margin becomes -

- ☐ 2 times  
☐ 1/2 times  
☐ remain same  
☐ 4 times

[View Answer](#)

**1/2 times**

17. Which of the following option represents the lead compensator?

- ☐ (s+2)/(s+5)  
☐ (s+5)/(s+6)  
☐ (s+2)/(s+1)  
☐ Both 1 & 2

[View Answer](#)

**Both 1 & 2**

18. At summing point, more than one signal can be added or -

- ☐ Multiplied  
☐ Subtracted  
☐ divided  
☐ None of the above

[View Answer](#)

**Subtracted**

19. .... digital inputs are present in PLCs?

- ☐ 32  
☐ 16  
☐ 8  
☐ 4

[View Answer](#)

**16**

20. Which of the following plays a crucial role in determining the state of dynamic system?

- ☐ State vector  
☐ State variables  
☐ State space  
☐ State scalar

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**State variables**

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