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## Control Systems MCQ Test

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**Q1. The ratio of output to input is.....at resonance peak.**

- **A. Highest**
- B. Zero
- C. Lowest
- D. None of the Above

**Q2. What happens If gain of the system is increased?**

- **A. Roots move away from the poles**
- B. Roots move away from the zeros
- C. Roots move towards the origin of the S-plot
- D. None of the above

**Q3. The system will be ..... for unity damping factor?**

- A. Over damped
- B. Under damped
- **C. Critically damped**
- D. None of the above

**Q4. Source power is modulated with ..... in a closed loop system.**

- A. Reference signal

- **B. Error signal**
- C. Actuating signal
- D. Feed back signal

**Q5. Which of the following is the liner differential transformer?**

- A. Electrical device
- B. Electrostatic device
- C. Electromagnetic device
- **D. Electromechanical device**

**Q6. Which of the following option is an example of an open loop system?**

- A. Household Refrigerator
- B. Respiratory system of an animal
- **C. Execution of program by computer**
- D. None of the above

**Q7. The output of the feedback control system must be a function of .....**

- A. Reference input
- B. Reference output
- **C. Input and feedback signal**
- D. Output and feedback signal

**Q8. Which of the following option is correct about Signal flow graphs?**

- **A. They apply to linear systems**
- B. Arrows are not important in the graph
- C. They cannot be converted back to block diagram
- D. None of the above

**Q9. Does feedback can always reduce the effects of noise and disturbance on system performance?**

- **A. Yes**
- B. No

**Q10. Which of the following is the major components of a controller?**

- A. Feedback element
- B. Control element
- **C. Error detector and control element**
- D. Error detector and feedback element

**Q11. Low power DC and AC motors are also known as -**

- A. A.C. generators
- B. D.C. generators
- **C. Servomotors**
- D. Tachogenerators

**Q12. Series circuits work on both hydraulic and pneumatic actuators. True or False?**

- **A. True**
- B. False

**Q13. SPICE stands for?**

- A. Stimulated program with integrated circuit arrangement.
- **B. Sequential program with integrated circuit analysis.**
- C. Simulated program with integrated circuit analysis.
- D. None of the above

**Q14. Which of the following option is also known as anticipatory controller?**

- **A. Derivative controller**
- B. Proportional controller
- C. Integral controller
- D. None of the above

**Q15. Transfer function of a control system is depend on**

- A. Nature of output.
- B. Nature of input.

- **C. System parameters alone.**
- D. Initial conditions of input and output.

**Q16. When the system gain is doubled the gain margin becomes -**

- A. 2 times
- **B. 1/2 times**
- C. remain same
- D. 4 times

**Q17. Which of the following option represents the lead compensator?**

- A.  $(s+2)/(s+5)$
- **B.  $(s+5)/(s+6)$**
- C.  $(s+2)/(s+1)$
- **D. Both 1 & 2**

**Q18. At summing point, more than one signal can be added or -**

- A. Multiplied
- **B. Subtracted**
- C. divided
- D. None of the above

**Q19. .... digital inputs are present in PLCs?**

- A. 32
- **B. 16**
- C. 8
- D. 4

**Q20. Which of the following plays a crucial role in determining the state of dynamic system?**

- A. State vector
- **B. State variables**
- C. State space
- D. State scalar

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