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Electrical Control Systems MCQ Test

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Q1. What do you mean by Process control system?

- **A. An automatic control system in which output is a variable**
- B. Automatic control system in which input is a variable
- C. Automatic control system in which output is a constant
- D. None of the above

Q2. Electrical resistance is analogous to Dampers.

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

Q3. Transient response in the system is basically due to ____.

- A. Forces
- B. Friction
- **C. Stored energy**
- D. Coupling

Q4. The transient response with the feedback system ____.

- **A. Decays quickly**
- B. Rises slowly
- C. Rises quickly
- D. Decays slowly

Q5. As a result of introduction of negative feedback which of the following will not decrease?

- **A. Band width**
- B. Overall gain
- C. Distortion
- D. Instability

Q6. The term backlash is associated with ____.

- A. servomotors
- B. induction relays
- **C. gear trains**
- D. None of the above

Q7. By using which of the following elements, mechanical translational systems are obtained?

- A. mass element
- B. spring element
- C. dash-pot
- **D. All of the above**

Q8. What is the use of lead compensator?

- **A. Transient response and Steady-state response**
- B. Transient request Steady-state request
- C. Both A and B
- D. All of the above

Q9. Which mechanism in control engineering implies an ability to measure the state by taking measurements at output?

- A. Controllability
- **B. Observability**
- C. Differentiability
- D. Adaptability

Q10. A control system with excessive noise, is likely to suffer from __.

- **A. saturation in amplifying stages**
- B. loss of gain
- C. vibrations
- D. oscillations

Q11. Which among the following are solely responsible in determining the speed of response of control system?

- **A. Poles**
- B. Zeros
- C. Speed of input
- D. None of the above

Q12. In a signal flow graph, nodes are represented by small __.

- **A. Circles**
- B. Squares
- C. Arrows
- D. Pointers

Q13. In a stable control system backlash can cause ____.

- A. underdamping
- B. overdamping
- C. poor stability at reduced values of open loop gain
- **D. low-level oscillations**

Q14. Bimetallic thermostat is On-off controller.

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

Q15. Which of the following is an essential feature of servo-mechanism?

- **A. A closed loop system**

- B. A power amplifying stage
- C. Ability to control position, velocity or acceleration of the system
- D. All of the above

Q16. According to signal flow graph, which among the following represents the relationship between nodes by drawing a line between them?

- A. Branch
- B. Self-loop
- C. Semi-node
- D. Mesh

Q17. Which type of node comprises incoming as well as outgoing branches?

- A. Source node
- B. Sink node
- C. Chain node
- D. Main node

Q18. Which unit is adopted for magnitude measurement in Bode plots?

- A. Degree
- B. Decimal
- C. Decibel
- D. Deviation

Q19. According to the property of impulse test signal, what is the value of an impulse at $t = 0$?

- A. Zero
- B. Unity
- C. Infinite
- D. Unpredictable

Q20. Where are the dummy nodes added in the branch with unity gain?

- A. At input & output nodes
- B. Between chain nodes
- C. Both A and B

- **D.** None of the above

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