

Control Systems Questions and Answers Pdf

1. The initial response when the output is not equal to input is called

- a. transient response
- b. error response
- c. dynamic response
- d. either of the above

Ans: A

2. A control system working under unknown random actions is called

- a. computer control system
- b. digital data system
- c. stochastic control system
- d. adaptive control system

Ans: C

3. A closed loop system is distinguished from open loop system by which of the following?

- a. servomechanism
- b. feedback
- c. output pattern
- d. input pattern

Ans: B

4. _____ is a closed loop system.

- a. auto pilot for an aircraft
- b. direct current generator
- c. car starter
- d. electric switch

Ans: A

5. Which of the following should be done to make an unstable system stable?

- a. the gain of the system should be decreased
- b. the gain of the system should be increased
- c. the number of poles to the loop transfer function should be increased
- d. the number of zeros to the loop transfer function should be increased

Ans: B

6. A.C. servomotor resembles

- a. two phase induction motor
- b. three phase induction motor
- c. direct current series motor
- d. universal motor

Ans: A

7. Regenerative feedback implies feedback with

- a. oscillations
- b. step input

- c. negative sign
- d. positive sign

Ans: D

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

- a. saturation in amplifying stages
- b. loss of gain
- c. vibrations
- d. oscillations

Ans: A

9. Transfer function of a system is used to calculate which of the following?

- a. the order of the system
- b. the time constant
- c. the output for any given input
- d. the steady state gain

Ans: C

10. The second derivative input signals modify which of the following?

- a. the time constant of the system
- b. damping of the system
- c. the gain of the system
- d. the time constant and suppress the oscillations

Ans: D

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