

## Control Systems Quiz Questions and Answers Pdf

1. When damping ratio is equal to zero, the damping frequency of a system is
  - a. Equal to natural frequency
  - b. Zero
  - c. More than natural frequency
  - d. Less than natural frequency

Ans; A

2. A system has a single pole t origin. Its impulse response will be
  - a. Constant
  - b. Ramp
  - c. Decaying exponentially
  - d. Oscillatory

An: A

3. Which one of the following is the best controller, to use for an electrically heated temperature-controlled liquid heater?
  - a. Two position controller
  - b. Proportional position controller
  - c. Floating controller
  - d. Single position controller

As: A

4. How can the steady state error in a system can be reduced?
  - a. By decreasing the type of system.
  - b. By increasing system gain.
  - c. By decreasing the static error constant.
  - d. By increasing the input.

Ans: B

5. Which one of the following application softwares is used to obtain an accurate root locus plot?
  - a. LISP

- b. MATLAB
- c. dBase
- d. Oracle

Ans: B

6. The instrument used for plotting the root locus is called

- a. Slide rule
- b. Spirule
- c. Synchro
- d. Selsyn

Ans: B

7. Root Loci starts from

- a. Poles and ends on zeros.
- b. Zeros and ends on poles.
- c. Zeros and ends on infinity.
- d. Poles and ends on infinity.

Ans: A

8. What is the number of root locus segments which do not terminate on zeros?

- a. The number of poles.
- b. The number of zeros.
- c. The difference between the number of poles and the number of zeros.
- d. The sum of the number of poles and the number of zeros.

Ans: C

9. If the gain margin of a system is decibels is negative, the system is

- a. Stable
- b. Marginally stable
- c. Unstable
- d. Could be stable or unstable or marginally stable

Ans: C

10. A system with gain margin close to unity or a phase margin close to zeros is

- a. Relatively stable
- b. Oscillatory
- c. Stable
- d. High stable

Ans: B

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