Control Systems MCQ Questions and Answers Pdf

- 1. In control system, excessive bandwidth is not employed because
 - a. Noise is proportional to bandwidth
 - b. It leads to low relative stability
 - c. It leads to slower time response
 - d. Noise is proportional to the square of the bandwidth

Ans: A

2. Open loop transfer function of a system having one zero with a positive value is called

.com

- a. Zero phase function
- b. Negative phase function
- c. Positive phase function
- d. Non minimum phase function

Ans: D

3. The characteristic polynomial of a system can be defined as

- a. Denominator polynomial of given transfer function
 - b. Numerator polynomial of given transfer function
 - c. Numerator polynomial of a closed loop transfer function
 - d. Denominator polynomial of a closed loop transfer function

Ans: D

- 4. Signal flow graph is used to find
 - a. Stability of the system
 - b. Transfer function of the system
 - c. Controllability of the system
 - d. Poles of the system

Ans: B

- 5. The law/principle in mechanical systems, analogous to Kirchhoff's laws in electrical systems, is
 - a. First law of motion
 - b. Second law of motion

- c. Third law of motion
- d. d's Alembert's principle

Ans: d

- 6. Time response of an indicating instrument is decided by which of the following systems?
 - a. Mechanical system provided by pivot and jewel bearing.
 - b. Controlling system
 - c. Deflecting system
 - d. Damping system

Ans: D

- 7. In Force-Voltage Analogy
 - a. Force is analogous to current
 - b. Mass is analogous to capacitance
 - c. Velocity is analogous to current
 - d. Displacement is analogous to magnetic flux linkage

8. In a servo-systems, the device used for providing derivative feedback is known as

a. Synchro

Ans: C

- b. Servomotor
- c. Potentiometer
- d. Tachogenerator

Ans: D

- 9. In position control systems, the tachogenerator feedback is used to
 - a. Increase the effective damping in the system.
 - b. Decrease the effective damping in the system.
 - c. Decrease the steady state error.
 - d. Increase the steady state error.

Ans: A

10. Two identical first order systems have been cascaded non-interactively. The unit step response of the systems will be

- a. Overdamped
- b. Underdamped
- c. Undamped
- d. Critically damped

Ans: D

1.

meritnotes.com