

**LPUNEST - Ph.D. Electrical Engineering
(Sample Questions)**

QUESTION 1 Which one of the following effects in the system is not caused by negative feedback?

- Option A reduction in gain
- Option B increase in bandwidth
- Option C increase in distortion
- Option D reduction in output impedance

QUESTION 2 The internal resistance of the milliammeter must be very low for

- Option A high sensitivity
- Option B high accuracy
- Option C maximum voltage drop across the meter
- Option D minimum effect on the current in the circuit

QUESTION 3 Which of the following is an invalid state in an 8 -4-2-1 Binary coded Decimal counter?

- Option A 1 0 0 0
- Option B 1 0 0 1
- Option C 0 0 1 1
- Option D 1 1 0 0

QUESTION 4 While Thevenizing a circuit between two terminals, V^{th} is equal to

- Option A short-circuit terminal voltage
- Option B net voltage available in the circuit
- Option C open-circuit terminal voltage
- Option D emf of the battery nearest to the terminals

QUESTION 5 With negative feedback in a closed loop control system, the system sensitivity to parameter variation

- Option A Increase
- Option B Decrease
- Option C Becomes zero
- Option D Becomes infinity

