

# 309A Practice Test Questions and Answers

## 1. What is a grounding electrode?

- A) A circuit breaker that trips on ground faults
- B) A conducting object that establishes a direct connection to earth
- C) A type of bonding bushing
- D) An insulated conductor in a raceway

## 2. What is Kirchhoff's Voltage Law (KVL)?

- A) The sum of currents entering a node equals the sum leaving
- B) The sum of all voltages around a closed loop equals zero
- C) Voltage is directly proportional to current
- D) Power equals voltage times current

## 3. What is an intersystem bonding termination?

- A) A connector for bonding plumbing to electrical systems
- B) A device providing connection points for bonding communication system grounds to the power system ground
- C) A type of ground rod connector
- D) A lightning arrestor mounting point

## 4. What is motor slip and how is it expressed?

- A) The difference between rated and no-load voltage, expressed in volts
- B) The difference between synchronous speed and actual rotor speed, expressed as a percentage
- C) The phase angle difference between voltage and current
- D) The efficiency loss due to friction

**Answers: 1-B 2-B 3-B 4-B**

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