

## Resistance Quiz Questions and Answers PDF

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**What is the unit of electrical resistance?**

- Ampere
- Ohm ✓
- Watt
- Volt

The unit of electrical resistance is the ohm, symbolized by the Greek letter omega ( $\Omega$ ). It quantifies how much a material opposes the flow of electric current.

**Analyze the significance of the Montgomery Bus Boycott in the context of civil rights resistance.**

**The Montgomery Bus Boycott was significant as it successfully challenged racial segregation in public transportation, mobilized the African American community, and set the stage for future civil rights activism.**

**How does material choice affect the resistance in an electrical circuit? Provide examples.**

The resistance in an electrical circuit is affected by the material's resistivity; materials like copper have low resistance, making them ideal for conductors, while materials like rubber have high resistance, making them suitable for insulation.

What strategies can be employed to combat antibiotic resistance?

Strategies to combat antibiotic resistance include: 1) promoting the appropriate use of antibiotics, 2) improving infection prevention and control measures, 3) increasing public awareness and education, 4) investing in research for new antibiotics and alternative therapies, and 5) implementing robust surveillance systems to monitor antibiotic use and resistance patterns.

Describe the impact of antibiotic resistance on global health.

Antibiotic resistance impacts global health by making common infections harder to treat, leading to increased death rates, prolonged illness, and a rise in healthcare expenditures.

Which event is associated with Rosa Parks' act of resistance?

- The Selma March
- The Montgomery Bus Boycott ✓**
- The March on Washington
- The Freedom Rides

Rosa Parks is famously associated with her refusal to give up her bus seat to a white passenger in Montgomery, Alabama, which sparked the Montgomery Bus Boycott and became a pivotal moment in the Civil Rights Movement.

**What is the primary cause of antibiotic resistance?**

- Overuse of antibiotics** ✓
- Lack of hygiene
- Climate change
- Genetic mutations

The primary cause of antibiotic resistance is the overuse and misuse of antibiotics in humans and animals, which leads to the survival and proliferation of resistant bacteria.

**Which material typically has the highest electrical resistance?**

- Copper
- Silver
- Rubber** ✓
- Gold

Materials like rubber, glass, and certain ceramics typically exhibit high electrical resistance, making them good insulators. Among common materials, rubber is often cited as having one of the highest resistances.

**Which of the following are consequences of social resistance movements? (Select all that apply)**

- Policy changes** ✓
- Economic downturns
- Increased awareness** ✓
- Technological advancements

Social resistance movements can lead to significant social change, increased awareness of social issues, and sometimes governmental reforms. They may also result in backlash or repression from authorities.

**Which materials are considered good conductors of electricity? (Select all that apply)**

- Copper** ✓
- Glass
- Aluminum** ✓

Plastic

Good conductors of electricity include metals such as copper, aluminum, and silver, which allow electric current to flow easily due to their free-moving electrons.

**Which of the following are effects of antibiotic resistance? (Select all that apply)**

- Longer hospital stays ✓
- Increased medical costs ✓
- More effective treatments
- Higher mortality rates ✓

Antibiotic resistance leads to increased healthcare costs, prolonged hospital stays, and higher mortality rates due to ineffective treatments. It also limits the effectiveness of standard medical procedures and can result in the spread of resistant infections.

**Which of the following is a characteristic of a resistor in an electrical circuit?**

- It increases voltage
- It decreases current ✓
- It stores energy
- It generates power

A resistor is a component in an electrical circuit that limits the flow of electric current. It is characterized by its resistance value, which is measured in ohms.

**What are the key components of Ohm's Law? (Select all that apply)**

- Voltage ✓
- Resistance ✓
- Power
- Current ✓

Ohm's Law is fundamentally based on the relationship between voltage, current, and resistance in an electrical circuit. The key components are Voltage (V), Current (I), and Resistance (R), typically expressed in the formula  $V = I \times R$ .

**What are common methods used in nonviolent resistance? (Select all that apply)**

- Sit-ins ✓
- Armed rebellion

- Boycotts ✓**
- Peaceful protests ✓**

Common methods of nonviolent resistance include protests, strikes, boycotts, and civil disobedience. These tactics aim to challenge and change oppressive systems without the use of violence.

**Who is known for leading the Indian independence movement through nonviolent resistance?**

- Nelson Mandela
- Martin Luther King Jr.
- Mahama Gandhi ✓**
- Rosa Parks

Mohandas Karamchand Gandhi, commonly known as Mahatma Gandhi, is renowned for his leadership in the Indian independence movement, advocating for nonviolent resistance as a means to achieve political and social change.

**Explain how Ohm's Law is used to calculate the resistance in an electrical circuit.**

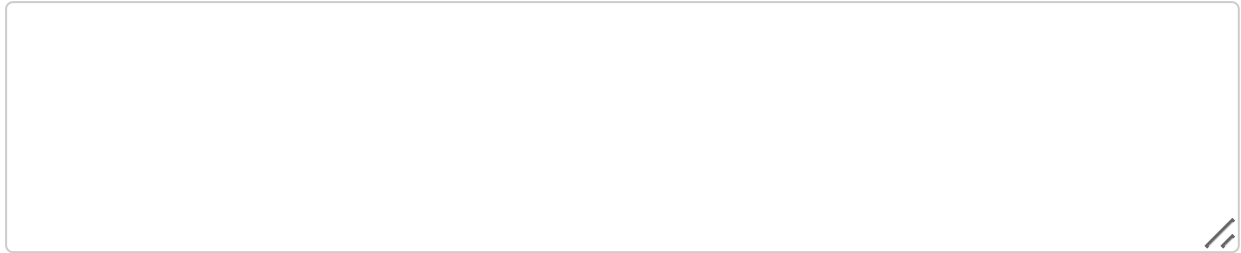
**To calculate the resistance in an electrical circuit using Ohm's Law, use the formula  $R = V/I$ , where  $R$  is resistance,  $V$  is voltage, and  $I$  is current.**

**What is the main goal of civil resistance movements?**

- To gain financial profit
- To promote social change ✓**
- To increase political power
- To expand military influence

The main goal of civil resistance movements is to achieve social or political change through nonviolent means, often by mobilizing public support and challenging oppressive systems.

**Discuss the role of Martin Luther King Jr. in the American Civil Rights Movement.**



**Martin Luther King Jr. played a crucial role in the American Civil Rights Movement by leading nonviolent protests and advocating for racial equality, significantly influencing public opinion and policy.**

**Which of the following figures were prominent in the American Civil Rights Movement? (Select all that apply)**

- Malcolm X** ✓
- Susan B. Anthony
- Martin Luther King Jr.** ✓
- Harriet Tubman

Prominent figures in the American Civil Rights Movement include Martin Luther King Jr., Rosa Parks, Malcolm X, and John Lewis, among others. These individuals played crucial roles in advocating for racial equality and social justice during the 1950s and 1960s.

**Which law relates voltage, current, and resistance in an electrical circuit?**

- Newton's Law
- Faraday's Law
- Boyles's Law
- Ohm's Law** ✓

Ohm's Law is the fundamental principle that describes the relationship between voltage, current, and resistance in an electrical circuit. It states that the current flowing through a conductor between two points is directly proportional to the voltage across the two points and inversely proportional to the resistance of the conductor.