Name _____

What is the Difference between AC (Alternating Current) and DC (Direct Current)?

Multiple Choice Questions

1. What was Thomas Edison's contribution to the development of electricity?

a) He invented the first electric generator.

b) He created alternating current (AC).

c) He developed the first practical electrical systems using direct current (DC).

d) He discovered the concept of electrical resistance.

2. How does direct current (DC) differ from alternating current (AC)?

a) DC flows in both forward and backward directions.

b) AC has a constant flow of electrons in one direction.

c) DC changes direction periodically.

d) AC flows in a single, steady direction.

3. Who is credited with the development and promotion of alternating current (AC)?

a) Thomas Edison

b) Alexander Graham Bell

c) Benjamin Franklin

d) Nikola Tesla

4. Which type of electricity is commonly used to power battery-operated devices like cell phones and laptops?

a) Direct current (DC)

b) Alternating current (AC)

c) Static electricity

d) Magnetic electricity

5. What is a key advantage of alternating current (AC) over direct current (DC)?

a) AC is more suitable for battery operation.

b) AC is efficient for long-distance transmission of electricity.

c) DC has a sinusoidal waveform.

d) DC is generated by power plants.