Basics of Electromagnetism

Physics · Answer Key · 8 Questions

1. What is produced around a wire when an electric current flows through it?

A) A magnetic field
B) A gravitational field
C) A nuclear force
D) A vacuum

2. How do magnetic poles interact with one another?

A) Like poles attract, opposite poles repel
B) Like poles repel, opposite poles attract
C) All magnetic poles attract each other
D) All magnetic poles repel each other

3. Which navigation tool relies on Earth's natural magnetic field to indicate direction?

A) Barometer
B) Thermometer
C) Compass
D) Altimeter

4. Which scientist discovered the principle of electromagnetic induction in 1831?

A) Isaac Newton
B) Michael Faraday
C) Albert Einstein
D) Galileo Galilei

5. Which metal core material is commonly placed inside a coil of wire to make a stronger electromagnet?

A) Copper
B) Iron
C) Gold
D) Aluminum

6. Visible light, radio waves, and X-rays are all components of what?

A) The electromagnetic spectrum
B) Sound wave spectrum
C) Mechanical wave spectrum
D) Ocean wave currents

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7. What is the standard International System of Units (SI) unit for electric current?

A) Volt
B) Watt
C) Ampere
D) Joule

8. Which device uses electromagnetic induction to increase or decrease the voltage of alternating electric current?

A) Resistor
B) Transformer
C) Capacitor
D) Diode

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