Global Electromagnetism Facts

Electromagnetism · Answer Key · 15 Questions

1. Which natural phenomenon, caused by the interaction of solar wind with Earth's magnetic field, is famously visible in the skies of Norway and Canada?

A) Aurora Borealis
B) Solar Eclipses
C) Monsoons
D) Tidal Waves

2. The Earth acts like a giant magnet. Which of these is a common device used globally to navigate by detecting the Earth's magnetic field?

A) Sextant
B) Compass
C) Astrolabe
D) Sun Dial

3. The South Magnetic Pole is currently located near which large landmass?

A) Australia
B) Africa
C) Antarctica
D) Greenland

4. The Arecibo Observatory, which studied electromagnetic waves from space, was historically located in which territory?

A) Puerto Rico
B) Japan
C) Iceland
D) Brazil

5. Which layer of the Earth's atmosphere, which reflects radio waves, is ionized by solar radiation?

A) Troposphere
B) Stratosphere
C) Ionosphere
D) Exosphere

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6. The Great Pyramid of Giza is oriented towards the cardinal points. Which magnetic tool was not yet in use to align it during ancient times?

A) Magnetic Compass
B) Plumb Line
C) Star Alignment
D) Shadow Clock

7. What is the name of the shield created by Earth's magnetic field that protects the planet from harmful solar radiation?

A) Ozone Layer
B) Magnetosphere
C) Crust
D) Atmosphere

8. Lightning is a massive discharge of electricity. Which region of Venezuela is famous for the Catatumbo lightning, a near-constant display of electrical storms?

A) Amazon Basin
B) Lake Maracaibo
C) Andes Mountains
D) Orinoco Delta

9. Modern high-speed Maglev trains, which use electromagnetic levitation, are extensively used in which Asian country?

A) Japan
B) Thailand
C) Mongolia
D) Laos

10. Which mineral, known as lodestone, is a naturally magnetized form of magnetite found in many parts of the world?

A) Quartz
B) Feldspar
C) Magnetite
D) Calcite

11. The North Magnetic Pole has historically been observed moving towards which country's Arctic region?

A) Russia
B) Canada
C) Australia
D) Chile

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12. What is the name of the device used to measure the intensity of the Earth's magnetic field?

A) Thermometer
B) Barometer
C) Magnetometer
D) Hygrometer

13. Radio waves are a type of electromagnetic radiation. Which international organization regulates radio frequency allocation globally?

A) ITU
B) WHO
C) UNESCO
D) NASA

14. Many migratory birds, such as the Arctic Tern, are believed to use what to navigate long distances across the globe?

A) Magnetoreception
B) Thermal currents
C) Ocean currents
D) Sunlight only

15. In 1831, Michael Faraday discovered electromagnetic induction. Which country was he from?

A) United Kingdom
B) France
C) Germany
D) Italy

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