Renewable Energy and the Universe

Renewable Energy · Answer Key · 15 Questions

1. Which celestial body is the primary source of solar energy for Earth?

A) The Moon
B) The Sun
C) Mars
D) Jupiter

2. What is the process by which the Sun creates the energy that we capture as solar power?

A) Nuclear fusion
B) Volcanic eruption
C) Chemical burning
D) Fossil decay

3. Tidal energy on Earth is primarily caused by the gravitational pull of which object?

A) The Sun
B) Saturn
C) The Moon
D) Venus

4. What type of light from the Sun do solar panels convert into electricity?

A) Gamma rays
B) Infrared light
C) Visible light
D) X-rays

5. The Earth receives more energy from the Sun in one hour than the entire human population uses in how long?

A) One day
B) One month
C) One year
D) Ten years

6. Wind energy is a form of solar energy because winds are caused by the uneven heating of the Earth's atmosphere by which star?

A) The Sun
B) Polaris
C) Sirius
D) Betelgeuse

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7. Which planet in our solar system has the most intense solar radiation due to its proximity to the Sun?

A) Mercury
B) Earth
C) Neptune
D) Saturn

8. What particles from the Sun strike solar panels to generate an electric current?

A) Protons
B) Neutrons
C) Photons
D) Electrons

9. Solar energy is considered a renewable resource because the Sun is expected to continue burning for how many billions of years?

A) 1 billion
B) 5 billion
C) 100 billion
D) 1 trillion

10. Geothermal energy, though found underground, is ultimately fueled by the heat trapped inside the Earth since its formation during the birth of what?

A) The Solar System
B) The Galaxy
C) The Black Hole
D) The Nebula

11. Which layer of the Earth's atmosphere protects the planet from harmful solar radiation while allowing energy to pass through?

A) The ozone layer
B) The ionosphere
C) The troposphere
D) The exosphere

12. Approximately what percentage of the solar energy reaching Earth is reflected back into space by clouds and the surface?

A) 30 percent
B) 5 percent
C) 80 percent
D) 1 percent

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13. Satellites orbiting Earth use what type of energy source to power their electronics in space?

A) Coal power
B) Solar energy
C) Wind power
D) Natural gas

14. Solar flares, which can interfere with electrical grids on Earth, occur on the surface of which celestial body?

A) The Sun
B) The Moon
C) Jupiter
D) Mars

15. The study of harnessing energy from space-based solar power involves placing solar arrays in what location?

A) Inside a volcano
B) In Earth's orbit
C) On the ocean floor
D) Inside a cave

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