Essential Facts About Climate Change

Climate Change · Answer Key · 8 Questions

1. Which greenhouse gas is primarily emitted through human activities like burning fossil fuels for energy?

A) Carbon dioxide (CO2)
B) Methane (CH4)
C) Nitrous oxide (N2O)
D) Chlorofluorocarbons (CFCs)

2. What global target limit for temperature rise above pre-industrial levels was emphasized in the 2015 Paris Agreement?

A) 0.5°C
B) 1.5°C
C) 3.5°C
D) 5.0°C

3. Ocean acidification is primarily driven by the ocean absorbing excess amounts of which gas from the atmosphere?

A) Sulfur dioxide
B) Methane
C) Carbon dioxide
D) Nitrogen oxide

4. Which United Nations organization is internationally recognized for assessing the science related to climate change?

A) Intergovernmental Panel on Climate Change (IPCC)
B) World Meteorological Organization (WMO)
C) United Nations Educational Organisation (UNESCO)
D) International Energy Agency (IEA)

5. What is the primary source of agricultural methane emissions caused by human activities?

A) Synthetic nitrogen fertilizers
B) Livestock digestion and manure management
C) Paddy rice cultivation burning
D) Deforestation for crop growth

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6. How does the melting of polar sea ice accelerate global warming through the albedo effect?

A) Dark ocean water absorbs more solar energy than reflective ice
B) Melting ice directly releases stored geothermal energy
C) Freshwater from melted ice traps atmospheric heat
D) Ice melt increases the chemical heat capacity of seawater

7. Which ecosystem type serves as the largest natural terrestrial carbon sink on Earth?

A) Deserts
B) Forests
C) Grasslands
D) Tundra

8. The continuous measurement of atmospheric carbon dioxide known as the 'Keeling Curve' has been recorded at which location since 1958?

A) Mauna Loa Observatory in Hawaii
B) Amundsen-Scott Station in Antarctica
C) Summit Camp in Greenland
D) Jungfraujoch in Switzerland

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