

Questions about global warming

Here are some questions related to global warming along with their respective answers:

1. **What is global warming?**

- *Answer:* Global warming refers to the long-term increase in Earth's average surface temperature due to human activities, primarily the release of greenhouse gases such as carbon dioxide and methane into the atmosphere.

2. **What are the main greenhouse gases responsible for global warming?**

- *Answer:* The primary greenhouse gases contributing to global warming include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and fluorinated gases. These gases trap heat in the Earth's atmosphere, leading to the greenhouse effect.

3. **How do human activities contribute to global warming?**

- *Answer:* Human activities, such as burning fossil fuels, deforestation, and industrial processes, release large amounts of greenhouse gases into the atmosphere. This enhanced greenhouse effect intensifies the natural warming of the Earth.

4. **What are the impacts of global warming on the climate?**

- *Answer:* Global warming contributes to changes in climate patterns, leading to more frequent and severe heatwaves, extreme weather events, rising sea levels, disruptions in ecosystems, and shifts in precipitation patterns.

5. **How does global warming affect sea levels?**

- *Answer:* Global warming causes the melting of glaciers and polar ice caps, contributing to the rise in sea levels. Additionally, the thermal expansion of seawater as it warms also plays a role in sea level rise.

6. **What is the difference between global warming and climate change?**

- *Answer:* While global warming specifically refers to the increase in Earth's average surface temperature, climate change encompasses a broader range of changes in climate patterns, including shifts in precipitation, extreme weather events, and alterations in ecosystems.

7. What role do oceans play in global warming?

- *Answer:* Oceans absorb a significant amount of heat from the atmosphere, helping to regulate Earth's temperature. However, increased greenhouse gas emissions contribute to ocean warming, which can have detrimental effects on marine ecosystems and sea life.

8. How can individuals contribute to mitigating global warming?

- *Answer:* Individuals can reduce their carbon footprint by using energy-efficient appliances, driving fuel-efficient vehicles, practising sustainable consumption, supporting renewable energy sources, and raising awareness about climate change.

9. What international efforts are in place to address global warming?

- *Answer:* The Paris Agreement is a significant international effort where countries commit to limiting global temperature increases and enhancing their efforts to combat climate change. The agreement emphasises reducing greenhouse gas emissions and promoting sustainable practices.

10. How does global warming impact biodiversity?

- *Answer:* Global warming can threaten biodiversity by altering ecosystems, disrupting migration patterns, affecting food sources, and contributing to habitat loss. Some species may struggle to adapt to the rapidly changing climate.

These questions provide an overview of the causes, consequences, and responses to global warming, a critical environmental issue that requires global cooperation and concerted efforts to address.