

## **19. What do you know about Global Warming? What is Greenhouse Effect?**

Today, climate change is one of the most concerning issues facing humankind and Global warming is mentioned above all. What is Global warming? It refers to the long-term increase in Earth's average temperature due to human activities, primarily the burning of fossil fuels and deforestation. This rise in temperature has significant impacts on weather patterns, sea levels and ecosystems.

And what is Greenhouse Effect? The greenhouse effect is a natural process that warms the Earth's surface. When the sun's energy reaches the Earth, some of it is reflected back to space, and the rest is absorbed, warming the planet. Greenhouse gases, such as carbon dioxide (CO<sub>2</sub>) and methane (CH<sub>4</sub>), trap some of this heat in the atmosphere, creating a "blanket" effect. While the greenhouse effect is essential for maintaining life, human activities have increased the concentration of these gases, enhancing the effect and causing global temperatures to rise. This leads to climate change, resulting in extreme weather events, loss of biodiversity, and various environmental challenges. Addressing global warming requires global cooperation to reduce emissions and promote sustainable practices.