

**TITLE OF CONTENT: GLOBAL WARMING AND CLIMATE CHANGE**

B.A. (IV<sup>TH</sup> SEMESTER)- PAPER II- DEVELOPMENT IN INDIA

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➤ **What is global warming?**

Global warming is the long-term rise in the average temperature of average temperature of the Earth's climate system. It is a major aspect of climate change and has been demonstrated by direct temperature measurements and by measurements of various effects of warming. Global warming and climate change are often used interchangeably.

➤ **What are the causes of global warming/climate change?**

It describes changes in the state of the atmosphere over time scales ranging from decades to millions of years. These changes can be caused by processes inside the Earth, forces from outside, i.e. intensity of sunlight has variations which in turn increases the overall temperature of the planet. Earth's average surface temperature has increased by about 0.8 degree celcius with about two thirds of the increase occurring since 1981.

➤ **Effects of Global Warming**

With an increase in global temperature the sea levels too rise and will change the amount and pattern of precipitation and a probable expansion of subtropical deserts. Warming is expected to be the strongest at the Arctic and would be associates with continuing retreat of glaciers, permafrost and sea ice. Warming related changes vary from region to region around the globe with projections being more robust than in other areas.

### ➤ **Impact of Global Warming on India**

The effect of global warming on the Indian subcontinent vary from the submergence of low lying islands and coastal lands to the melting of glaciers in the Indian Himalayas, threatening volumetric flow rate of many of the most important rivers of India and South Asia. In India, such effects impact millions of rivers and also makes India volatile.

Some of the deadliest impacts of global warming are:-

1. Polar Ice Caps Melting
2. Warmer water and more hurricanes
3. Spread of diseases
4. Economic consequences
5. Increased droughts and heat waves