

Q#2.....

Ans:

**Global Warming:** The long-term increase in Earth's average surface temperature due to human activities, primarily the release of greenhouse gases. This trapped heat leads to changes in weather patterns and can cause extreme events like floods.

#### **Global Warming and Environmental Issues in Pakistan:**

**Increased Flooding:** Global warming leads to higher temperatures, causing more evaporation from oceans. This extra moisture in the air results in heavier rainfall and increased chances of floods. Pakistan, especially regions like Sindh, faces devastating floods due to these intensified rainfalls. Floods cause loss of lives, damage to homes, agriculture, and infrastructure, leading to economic setbacks.

**Glacial Melting:** Pakistan has many glaciers in its northern regions. With global warming, these glaciers are melting faster. This excess meltwater flows into rivers, causing an increased risk of river flooding during heavy rains. Moreover, this situation, in the long run, can lead to water shortages in the dry seasons as the glaciers shrink.

**Changing Weather Patterns:** Global warming alters normal weather patterns. Areas accustomed to regular rainfall might experience longer dry periods, impacting agriculture, water availability, and livelihoods. Unpredictable weather makes it challenging for farmers to plan their crops and harvests.

**Rising Sea Levels:** Although Pakistan doesn't border the sea everywhere, rising sea levels can affect coastal areas. This leads to erosion, threatening homes and infrastructure along the coast. It also affects the lives of people who rely on coastal resources.

**Impact on Agriculture:** Changes in weather due to global warming can seriously affect agriculture. Floods can destroy crops, while droughts during dry spells can result in water shortages, affecting food production and livelihoods.

**Air Pollution:** Pollution in Pakistani cities from factories, cars, and burning things makes the air dirty. Breathing this dirty air can make people sick and harm nature.

**Deforestation:** People are cutting down trees a lot. This causes the soil to wash away, plants and animals to disappear, and messes up nature.

**Water Scarcity:** Apart from melting ice, there isn't enough water because we waste it and make it dirty. In some places, there's hardly any water for people to use.

**Waste Management:** There's a lot of garbage lying around because we don't manage it properly. This makes places dirty and can make people sick.

To address these issues, reducing activities that cause global warming, like reducing the use of fossil fuels and protecting forests, is crucial. Additionally, efforts to build stronger infrastructure that can withstand floods, improve water management to handle excess rainfall, and adapt farming practices to changing climates are essential for Pakistan's resilience against these environmental challenges.