

Climate Change : Causes and Consequences

Outline

I- Introduction

- a) Hook
- b) Background
- c) Thesis Statement: Climate Change driven by human negligence through fossil fuel use, deforestation, industrialization and waste mismanagement has intensified greenhouse gas emissions, resulting in severe climatic, environmental, and socio-economic consequences.

II. Causes of Climate Change

1- Burning of Fossil Fuels

- a) Rising CO_2 levels due to Industrial energy use in China & US.
- b) Reliance on thermal power plants increasing emissions in Pakistan

2- Deforestation and Land degradation

- a) Amazon Rainforest deforestation

accelerating global CO₂ buildup.

b) Deforestation in northern Pakistan reducing forest cover.

3- Rapid Industrialization

a) Industrial emissions worsening global air quality

b) Lahore's smog crisis resulting from unchecked industrial growth & transport emissions.

4- Agricultural Emission.

a) European livestock farming contributing to high methane output

b) Rice cultivation in Pakistan emitting methane during monsoon season.

5- Waste Mismanagement

a) Uncontrolled dumping, burning of waste, and industrial effluents.

b) Unmanaged waste sites in Pakistan contributing to urban warming and health hazards.

III. Consequences of Climate Change

1- Global Warming & Rising Temperature

- a) 2023 declared hottest year globally by the World Meteorological Organization
- b) Jacobabad's record heatwaves exceeding 50°C in summer months.

2- Melting Glaciers and Rising Sea levels

- a) Accelerated glacial retreat and submergence of low-lying coastal regions.
- b) Karakoram and Himalayan glacier melt threatening Indus River basin

3- Extreme Weather Events

- a) Destroying millions of hectares of forest e.g. Australia bushfire (2019-2020).
- b) Monsoon floods in Pakistan submerging one-third of the country in 2022.

4- Biodiversity and Ecosystem

Degradation

- a) Great Barrier Reef bleaching caused by Ocean temperature rise
- b) Loss of mangrove forest in Pakistan endangering marine species.

5- Socio-economic Crisis:

- a) Food insecurity, displacement and economic losses in developing nation
- b) Climate disaster in Pakistan causing \$30 billion economic loss and mass displacement.

IV- Conclusion