

Climate change: Causes and Consequences

Outline

1. Introduction:

- i) climate change is one of the most serious global challenges of modern era.
- ii) It refers to a long term change in temperature.
- iii) climate change is driven by human activities e.g. use of fossil fuels, deforestation, industrialization.

2. What are the causes of climate change?

2a) Burning of Fossil Fuels.

(International Energy Agency(IEA) → Report that global energy related CO₂ emission exceeded 37 billion tonnes per year).

2b) Deforestation and land use change.

(According to FAO deforestation contribute 10-15% of global greenhouse gas emissions)

2c) Agriculture and livestock.

(FAO estimate livestock farming → 14.5% global green house emissions.)

2d) Industrialization and cement production
(Global carbon project (GCP) → 7-8% of global CO₂ emission due to cement production.)

2e) Waste generation and Urban Activities.
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(United Nations Environmental program (UNEP) → 3-5% of global greenhouse emission).

3- What are the consequences of climate change?

3a) Rising Global Temperature.

(According to (IPCC) report → Earth has warmed by approximately 1.1°C above pre-industrial level).

3b) Melting Glaciers and polar ice.

(Arctic sea ice has declined 40% since 1979).

3c) Sea Level Rise.

(According to the IPCC → Global sea level have risen 20-20 cm since 1900)

3d) Food Insecurity and Agriculture.

(According to FAO → climate change could push 10 millions of people into hunger by 2050).

3e) Biodiversity loss:

(According to (IPBES) report → one million species are at risk of extinction).

3f) Human Health and Social Impact

(According (WHO) estimates that climate change could cause 250,000 additional deaths per year between 2030 and 2050)

4. Solutions of these problems:

- i) shifting of fossil fuels to renewable energy sources.
- ii) planting more trees and protecting existing forest.
- iii) Agriculture must adopt climate-friendly methods to reduce emissions and insure food security.
- iv) promote public transportation, electric vehicles, cycling.
- v) Strong government policies are essential to address climate change.

5. Conclusion.