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Batch: 87

"Climate change: causes and consequences."

1. Introduction:

- a. Hook
- b. Background / concept of climate change.
- c. Thesis statement.

The major causes behind the climate change are green house gas emissions, Industrial activities, deforestation over population, and volcanic eruption and solar variation. Which result in these consequences such as melting glaciers, sea-level rise, extreme weather, floods, Migration health hazard and infrastructure damage

2. Major causes of climate change:

A. Anthropogenic causes.

I. Excessive greenhouse gas emissions.

- a. Carbon dioxide
- b. Methane

II. Industrial activities and chemical emissions

- a. Burning fossil fuels (production).
- b. Release CFCs.

III. Deforestation.

- a. Carbon absorption reduced.

IV. Over population.

- a. Increasing demand for resources
- b. Greater land use
- c. Energy consumption.
- d. Unsustainable agricultural.

B. Natural Causes

I. Volcanic eruption

- a. Sulfur dioxide
- b. short term cooling

II. Solar Radiation

- a. UV Radiation
- b. IR wave traps CO_2 .

3. Consequences of climate change

A. Environmental Impacts.

I. Melting glaciers and sea-level rise

- a. freshwater shortage
- b. Sea level rise.
- c. glacial habitats face extinction.

II. Extreme weather.

- a. Natural disasters (floods, droughts and heat wave).

B. Socioeconomic impacts

I. Agricultural decline:

- a. disruption in rainfall
- b. causes food insecurity.

II. Migration and displacement.

- a. displaced populations
- b. Damage, infrastructure
- c. Increase poverty and inequality.

III. Health hazard.

- a. disease spread
- b. health expenses.

4. Pakistan and climate change

- a. Pakistan ranks among top ten countries, climate ^{vulnerable}
- b. Frequent floods (2022)
- c. economic loss.
- d. Extreme rainfall
- e. Food insecurity, poverty and social instability

5. Way forward.

- a. global Action
- b. National Action

6. Conclusion