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BATCH: 87

TOPIC: CLIMATE

CHANGE: CAUSES AND

CONSEQUENCES

INTRODUCTION:

- Brief explanation of climate change as a global phenomenon.
- Rising global temperatures as evidence of human-induced climate change.

THESIS STATEMENT:

Climate change, largely driven by anthropogenic activities, poses severe environmental, economic, and social consequences.

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ces, demanding urgent global action.

ii) UNDERSTANDING CLIMATE CHANGE

- Definition Of climate change
- Difference between natural climate variability and modern climate change.
- Role Of green house effect.

iii) CAUSES OF CLIMATE CHANGE:

(A) Anthropogenic Causes

① Burning Of fossil fuels

● Carbon dioxide

emission from industries, power plants and transport

② Deforestation

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- Loss of Carbon Sinks

- Land use change

⑩ Industrialization and urbanization

- Increased energy demand

- Cement and steel production

⑪ Agricultural practices

- Methane from livestock

- Nitrous oxide from fertilizers

⑫ Waste Generation

- Landfill emissions and poor waste management

⑬ Natural Causes

- Volcanic eruptions

- Solar radiation radiations

- Oceanic currents

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IV) CONSEQUENCES OF CLIMATE CHANGE

A) Environmental consequences

- Rising global temperatures
- melting glaciers and polar ice caps
- sea-level rise
- Extreme weather events (floods, droughts, heatwaves)
- loss of biodiversity and ecosystem imbalance.

B) Economic consequences.

- Damage to infrastructure
- Agricultural losses and food insecurity.
- Increased disaster management costs
- Impact on developing economies

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• (c) Social and Human Consequences

- climate-induced migration
- Health issues (heat, stress,

Spread of diseases

- water scarcity
- Increased poverty and inequality

(D) Consequences for Pakistan

- Floods and glacial lake outbursts.
- water stress and agricultural vulnerability
- Heatwaves and urban flooding

Economic strain despite

minimal contribution to global emissions.

✓) GLOBAL AND NATIONAL RESPONSES:

- International agreements

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(Paris agreement)

- Renewable energy transition
- Climate adaptation and mitigation strategies
- Role of policy, governance, and public awareness.

vi) WAY FORWARD

- Shift towards sustainable development
- Investment in clean energy
- climate-resilient infrastructure
- International cooperation and climate justice
- Individual responsibility and Behavioral change

vii) CONCLUSION:

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- Restatement of the urgency of climate change
- Emphasis on collective global responsibility.