

Climate Change: - Causes And Consequences

Outline

1) Introduction

- Hook Statement
- Background
- Thesis Statement : - Scientists believe that both natural mechanisms that include variations in the Earth's orbit, Volcanic Eruption, mountain building etc and human activities causing greenhouse gas emission are responsible for the change in temperature and weather patterns. Together, they have devastating effects on physical and ecological environment, socio-economic effects and effects on human health.

2) Causes Behind Climate Change

- Natural Mechanisms :-

1) Variations in the Earth's Orbit

→ Distribution of Sunlight

→ Types of Orbital Variations

2) Volcanic Eruptions

e.g Mounts Tambora

3) Atmospheric aerosols

- infrared radiations

- Cloud formation

4) Plate Tectonics

- changes in mantle and convection currents

- State of oceans

5) Mountain buildings

- wind patterns

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Human Activities :-

1) Manufacturing Goods

- Mining

- Steel, electronics, plastics

Industrial revolution (1) -
The earth's orbit, volcanic eruption, weather
building etc and human activities causing
greenhouse gas emission are responsible for
the change in temperature and weather
patterns. Together they have devastating
effects on physical and biological environment,
social-economic effects and effects on human
health.

2) Cutting down forests

- Release of CO₂

- Destruction of 12
million hectares

3) Land Use Patterns

- Increase in albedo

4) Using Transportation

- Major contribution

5) Producing food

- Grazing, digestion by cows

- production of fertilizers

6) Powering buildings

- Rising energy demand for heating and
cooling

3) Consequences of Climate Change

1) Physical effects

1) Droughts

- decreased rainfall

2) Desertification

- desert encroachment in Nigeria

3) Natural Disasters

- increased flooding
- more severe storms

4) Extreme weather variations

- heat wave in mid western US in April and May 2022
- Ice melting in winter 2001, Russia

5) Increased Annual Temperature

- increase in temperature by 5° Celsius

2) Ecological Effects:-

1) Loss of biodiversity

- Disruption of life styles
- e.g polar bears

3) Socio-Economic effects

1) Poverty and displacement

- destruction of livelihoods
- Water Scarcity

2) Food Production:-

- River flooding

3) Employment Status and Education

- Occupational health barriers

4) Building and Infrastructure

- low resistance to storms
- location

5) Tourism

- e.g Southern Europe

- winter sports tourism

4) Health Impacts

- seasonal allergies
- Heat related mortality

5) Conclusion