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ESSAY

Climate change ⁱⁿ of Pakistan: Causes & Consequences

Outline

1) Introduction ⁱⁿ

2) Climate change of Pakistan

a. Pakistan contributes little to green house gas emissions.

b. Impacted majorly due to its geographic location

3) Causes of Climate Change in Pakistan

a. Deforestation

(i) logging and wood fuel in ⁱⁿ rural areas

(ii) Urban expansion ~~have~~ led to clearing of forests.

b. Greenhouse gas emissions

(i) fossil fuel combustion

(ii) Production of methane via cattles and use of synthetic fertilizers contributes to NO_2 emissions.

(iii) Industrial work releases gases

d) Industrialization

- (i) Increased energy consumption
- (ii) High pollution levels.

e. Melting glaciers

(i) Pakistan has more than 7000 glaciers due to the global warming.?

(ii) Also led to glacial lake outbursts floods (GLOFs)

f. Energy Production

(i) Reliance on ~~heavy~~ fossil fuels for electricity production.

(ii) ~~Contribute~~ contribute to global warming due to gas emissions.

g. Pollution and waste management

(i) ~~Open~~ Waste ~~Burning~~

(ii) ~~Harmful pollutants released~~

(iii) ~~Un~~ ~~regulated~~ industrial emissions

4) Consequences of Climate Change in Pakistan

a. ~~Rising temperatures~~

(i) ~~Causes~~ heatwaves

(ii) ~~glacial melting~~

(iii) ~~floods~~

(iv) ~~droughts~~

(v) ~~storms~~

b. Rise in sea levels.

(i) Higher temperature causing polar ice to melt.

(ii) Coastal flooding.

c. Disruption of ecosystem.

(i) Changing habitats of animals and plants -

(ii) Struggle for survival.

d. Erratic rainfall patterns

(i) Intense and unpredictable rainfall

(ii) Extreme weather events caused like floods and drought.

(iii) October 2022 flood in Pakistan — 2000 people killed and 15 billion dollars of economic loss.

e. Agricultural impacts

(i) Decreased crop yields due to alleviated water availability.

(ii) Food insecurity due to the changing climate patterns.

f. Migration And Displacement

(i) Disasters pushing people from rural / coastal areas to urban.

(ii) Increased strain on the urban infrastructure.

g. Water scarcity.

(i) Caused due to climate change impacts on Indus River.

(ii) Due to high population growth.

(iii) Changes in monsoon patterns.

5) Conclusion.

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We are the first generation to feel the impact of climate change and the last generation that can do something about it (Barack Obama). One of the fastest emerging problems faced by the world today is climate change. Every day, different factors ~~and forces~~ add to its ~~definition~~ **impact**. The phenomenon itself refers to the long-term shifts in the temperature and weather patterns, predominantly driven by human activities such as burning fossil fuels, deforestation and industrial processes. These actions increase the concentration of greenhouse gases (GHGs) into the air, which play a leading role in causing global warming. The consequences of global warming are profound, affecting ecosystems, economies, and the communities worldwide, as well as Pakistan. It is a fact that despite the causes of climate change in Pakistan, if it continued to expand, it will have serious consequences for Pakistan.