

## Assignment-Essay

# TOPIC CLIMATE CHANGE: ITS CAUSES AND CONSEQUENCES

### Outline:

Hook: "We are the first generation to feel the impact of climate change and the last generation that can do something about it" ~ Barack Obama

Background information :-

Thesis:-

Causes of Climate changes are burning of fossil fuels, rapid Industrialization, Resource Extraction, LiveStock, Agricultural practices and Electronic Waste. However, consequences of climate changes are Ecosystem collapse, Biodiversity loss, Glacial retreat, Human Health impact, Food & water insecurity and Rising temperature.

### Causes Of Climate Change:

A. Burning of fossil fuels

Case In Point:- United Nations conforms attributing approximately 90% of all CO<sub>2</sub>

(carbon dioxide) emissions and 75% of Green house gases (GHG<sub>s</sub>) emissions to burning fossil fuels.

### B. Rapid Industrialization:

Case in point: 80% of CO<sub>2</sub> contribute in atmosphere due to industrialization.

### C. Resource Extraction:

Case in point:- due to release green house gas emissions (GHG<sub>s</sub>). Minerals are responsible for 26% of global carbon emissions.

### D. Live Stock:

Case In Point:- CH<sub>4</sub> releases into the atmosphere when animals burp or fart. One Cow produces up to 264 pounds of methane every year.

### E. Agricultural Practices:

Case In Point: The FAO identified 31% of human-caused global emissions originate from world's agri-food systems.

### F. Electronic Wastes

In Case In Point: In 2022, estimated 62 million tonnes of e-waste were produced globally.

## Consequences Of Climate Change:

### A. Ecosystem Callapse

Case In Point: 7,400 hectares of the Northern Mangroves in Australia were lost between 2015-16 recorded.

### B. Food & Water Insecurity

Case In Point: 8 million to 80 million people projected at risk of hunger in mid-century in Sub-Saharan Africa, South Asia & Central America etc. Freshwater is less than 1800m<sup>3</sup>/y projected by 2035.

### C. Biodiversity loss

Case In Point: Projection of IPCC indicate that the Earth gets warmer, more species are at risk of extinction due to climate change.

### D. Glacial retreat

Case In Point: In Pakistan, upto 65% of Hindukush-Himalyas glaciers at risk of disappearing by 2100.

### E. Human Health Impacts:

Case In Point: WHO (World Health Organization) warns that climate change may cause 250,000 deaths per year from malnutrition, malaria, diarrhoea, heat stress etc.

## F. Rising Temperatures

Case In Point: i) Drought and high temperatures worsened 2020 bushfires in Australia.

ii) In 2024, severe heatwave caused major wildfires to erupt across multiple locations in the Maragalla Hills National Park.

### Way forward:

- i) Public Awareness about climate change
- ii) Policies implementation at national and international level.
- iii) Planting more trees
- iv) Re Shifts to Renewable energy
- v) Dams and water Storage b
- vi) Strict Policies for chemical emissions.

### Conclusion:

Intolerance - causes and way forward  
Thesis Statement Causes of intolerance are Lack of Awareness among masses, Socio-economic inequalities, biased and unfair politics, ineffective judicial system, misleading media misinformation and disinformation and religious extremism. Way forward to counter intolerance are ensuring awareness

through academia, Enact laws to ensure efficient use of media, empower through giving employment opportunities, and eradicate socio-economic inequalities

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## Geostrategic Location of Pakistan: Challenges and opportunities in the 21<sup>st</sup> Century

### Thesis Statement:

Challenges for the geosstrategic location of Pakistan are Border tensions, Regional Security, Economic concerns, Climate effect, Energy Insecurity. However, Opportunities are bridge between regional markets, CPEC and regional energy hub corridors Gwadar Port as hub for industrial zones and strategic trade routes for economic integration.

# Climate Change: Causes And Consequences

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## Introduction:

As Barack Obama said; "We are the first generation to feel the impact of climate change and the last generation that can do something about it." This phrase emphasizes the urgency of climate action. It highlights that the current generation is experiencing the effects of climate change and a call for responsible solutions and implementation, immediate accountability to prevent massive damages, protect the planet and ensure a safe future for next generations. Climate change is not a future problem; it is already causing 13 million deaths annually through extreme heat and disease spread. Between 2030 and 2050, it is expected to cause 250,000 additional deaths per year from malnutrition, malaria, diarrhoea and heat stress. The 2022 floods in Pakistan caused over \$30 billion in damages, highlighting the urgent,

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catastrophic impact on agriculture, water security and infrastructure. Extreme weather, erratic monsoon and melting Himalayan glaciers are destroying livelihoods and increasing risk for over 220 million people. Causes of Climate change are burning of fossil fuels, rapid industrialization, Resource Extraction LiveStock, Agricultural practices and Electronic Waste. However, consequences of climate change are Ecosystem collapse, Biodiversity loss, Glacial retreat, Human health impacts, Food and water insecurity and Rising temperatures.