

• Topic:

# CAUSES AND IMPACTS OF CLIMATE CHANGE ON PAKISTAN

• OUTLINE

1. Introduction

- Thesis Statement: The phenomenon of climate change is not as old as time but a part recent history caused majorly by men besides nature. It is impacting global-south severely especially Pakistan, undermining its socio-political and economic structure. Through pragmatic approach, however, this issue can be addressed efficiently.

2. Causes of Climate Change:

2.1 Natural causes of Climate Change

- Volcanic activity
- Movement of Plate Tectonics
- Solar winds hitting Earth's magnetic field.

2.2 Waste-disposal practices.

- Domestic waste collection method
- Industrial waste is not dumped in landfills
- Burning of crops in agriculture.

2.3 Traditional agricultural practices

- Drainage of agricultural waste
- Excess use of pesticides
- Not utilizing cow-dung. — ?

## 2.4 Water Pollution by humans

- Industries' favorite spot to dump its chemicals
- Wiping-out Mangroves forest
- Off-season fish-hunt

## 2.5 Unending greed of humans to exploit nature

- Deforestation to build jungle of steels
- Avoiding public transport
- Unethical use of resources

## 2.6 Excessive use of Hydrocarbons for two-centuries

- Generation of electricity
- Industrial revolution built on it
- Reliance on transportation.

## 3. Impacts of Climate Change in Pakistan:

## 3.1 Natural calamities have become a new normal

- Floods of 2010 and 2023
- Arrival of Smog and late winters
- Surge in the frequency of cyclones e.g. BIPARTOY.

## 3.2 Loss of infrastructure

- Breaking-away of dams and barrages.
- Loss of ~~government offices~~ **infrastructure**
- Loss of health and educational centers.

## 3.3 Rising temperature and Extended summer

- Affecting temperature-sensitive crops
- Affecting marine life breeding
- Affecting volume of Indus Basin. ?

- 3.4 Demographic changes in the society.
- Exponential Urbanization for climate-security.
  - Surge in climate refugees. ?
  - Increase in the number of crimes.

- 3.5 Raising health concerns in Pakistan.
- Surge in neonatal deaths
  - Malnutrition increases between 5-16 years old.
  - [Impacting women's mensurational cycle.] ?

- 3.6 Economy has been affected severely.
- Weakens budget of the country.
  - Re-building infrastructure requires cost.
  - Addressing challenges due to this need finance.

4. Ways through which the impact of Climate Change can be mitigated for Pakistan:

- 4.1 Formulating Climate-resilient policies.
- Legislation for Industries' method of production.
  - Inclusion of green energy especially in electricity.
  - Heavy tax over violators.

- 4.2 Empowering concerned authorities to mitigate its impact and spread awareness.
- Funds and training to NDMA, PDMA, DDMA.
  - Invest in Research and development for prediction.
  - Use of social and mainstream media to teach.

- 4.3 Seeking global cooperation to address climate change.
- World forum to represent climate-risk countries.
  - Empower INDC revolutions through global cooperation.
  - Tax on economies responsible for most carbon emissions.

5. Conclusion

# The Essay

Humans are created to become the most superior creation of God, and this is what they have shown historically from building Pyramids to creating machines. The latter became the reason for the Industrial revolution in the form of Steam engine in the mid 18th century, making humans prosperous and advance technologically. Despite the fruit of economic progress that humans reaped from Industrial revolution, its bane dominates the world. Climate change is one such bane. It is the average change in Earth's weather in a period of 30 years that first was observed by Swedish scientist, Svante Arrhenius by the end of 19th century. Since that point until today, humans have rose ? against climate change time-to-time, but had been unable to achieve sustainability mainly due to the unending materialistic progress of men that one day would engulf

the planet for good. Henry David Thoreau, an English naturalist, rightly said that "there would be no use of a house, if you do not have a tolerable planet to put it on." This can be interpreted that the greed of human to get ahead from individual to state-level, undermining climate meanwhile would lead them nowhere as there may not be a planet to live-on. Therefore, climate change is a real and mutual responsibility that is caused by men and nature both - mainly men. Along with natural, unsustainable practices of waste-disposal, old agricultural techniques, water pollution, greed of humans and excessive use of hydrocarbons are the causes for climate change. These have impacted the whole world but the situation is exacerbated for global south specifically Pakistan. The country, that for some time is battling against its survival has witnessed nature's wrath in the form of natural calamities, affecting the infrastructure of the country. Climate change impacts are visible in Pakistan in the form of rising temperatures, demographic changes that have resulted in major health concerns, followed by burden on debt-bare economy of the country. Practical approach to solve this issue is the need of the hour. Formulating climate-resilient policies, empowering concerned authorities and seeking global cooperation are some pragmatic ways to deal with climate change for Pakistan.

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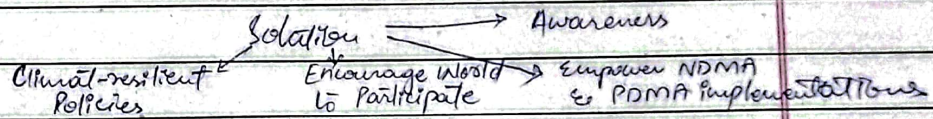
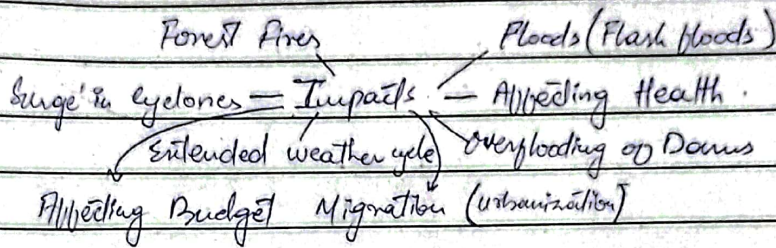
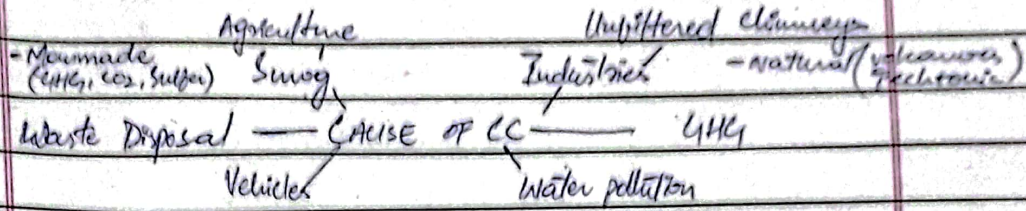
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Now, it can be said that the phenomenon of climate change is not as old as time but a part of recent history, caused majorly by men besides nature. It is impacting global-south severely especially Pakistan, undermining its socio-political and economic structure. Through pragmatic approach, however, this issue can be addressed efficiently. It is only then that we could promise prosperous and sustainable future to our younger generations.

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### Cause & Impacts of CC on Pak.



### Outline

|     |   |                                  |
|-----|---|----------------------------------|
| 1.  | Intro                                   | 5. Conclusion                    |
| 2.  | Causes of CC                            |                                  |
| 2.1 | Natural causes                          |                                  |
|     | 2.1.1 Tectonic Plates & Volcanoes       | 2.1.2 Solar winds                |
|     |   | 3. Impact on Pak                 |
| 2.2 | Waste Disposal                          | 3.1 Floods                       |
|     | - Garbage not open - Incineration       | - Floods of 2023 - Dam Dribbles  |
|     | - Industrial waste not dumped           | - Flash floods                   |
| 2.3 | Poor Agricultural Practices             | 3.2 Surge in Oceanic cyclones    |
|     | - Erosion - Drainage of fertilizers     | - Cyclone Asma                   |
|     | - Pesticides                            | - Cyclone Biparjoy - Remil       |
| 2.4 | Water Pollution                         | 3.3 Migration                    |
|     | - Industries - Mangroves destruction    | - Urbanization - Surge in Cities |
|     | - Beaches                               | - Climate Resilient              |
| 2.5 | Transportation & Industries             | 3.4 Affecting Health             |
|     | - Unfiltered chimney - Traditional wood | - Neonatal death - Surge in      |
|     | - Incomplete combustion (vehicles)      | - Neurological cycle Flu         |
| 2.6 | Use of Hydrocarbons                     | 3.5 Other Natural events         |
|     | - Electricity - domestic use            | - Forest fires - Humidity of     |
|     | - Transportation                        | - Extended summer last month     |
|     |   | 3.6 Affecting Economies          |
|     |   | - Weakens budget                 |
|     |   | - Re-building infrastructure     |