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Climate change

Outline:

- 1) Introduction
- 2) Debunking the term climate change and assessing its current status in Pakistan

Case-in-point: Pakistan is 5th most vulnerable country to climate change, despite contributing only 0.88% of global greenhouse gases.

- 3) Challenges faced by Pakistan due to climate change.

3.1 Rise in temperature leading to severe heatwaves, droughts and land degradation

Case-in-point: According to a report, From 1960 to today the Pakistan average temperature has risen to 0.5°C with projections suggesting further 1.3°C to 1.5°C increase by 2050.

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Glacial melting resulting
on recurrent floods and rise
of sea level.

Case-in-point: "Hindukush Karakoram
Himalayan glaciers are melting."

ii) Floods of 2010, 2020, 2024
and 2028

iii) According to Karachi tidal
station, it has been seen that
sea level will rise by 1mm/year
annually.

Increase in health and food
insecurities further exacerbating the
already ~~exacerbating~~ crippling society.

Case-in-point: i) Flour crises in
Balochistan in 2022.

ii) Explosion of waterborne and
vector borne diseases.

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3.4) Shrinking the already fragile economy.

Case-in-point: i) The floods of 2022 caused a \$14 billion damage of infrastructure.

ii) According to World Bank, Pakistan is subjected to 10-20 pc decrease in GDP by 2050.

3.5) Destructing ~~eco~~ biodiversity ~~by~~ resulting in disrupting natural equilibrium

Case-in-point: According to UNDP, every 1 million out of 5 million species is at risk.

4) Solutions to overcome menace of climate change.

4.1) Limiting release of Greenhouse gas

4.2) Introduction of eco-friendly and green technology

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- 4.3) Launching afforestation campaigns
- 4.4) Raising awareness among public
- 4.5) Conclusion.

Use blue pen

Tenses mistakes

Preposition error

Cite valid facts

Write topic of the essay properly

Integrate your hook into the rest of Introduction

Avoid grammatical errors

Work on your evidence to validate your point

Pakistan Climate crises : Challenges and Solution

" Climate change is real -

It is happening right now,
it is one of the most urgent
threat that our entire species
are facing and we need to

work on it collectively without
any procrastinating"

(Leonardo Di Caprio)

Climate change is one of the
gravest challenges confronting
human beings, the environment and
the economies worldwide. The developed
countries, particularly third world
ones are highly prone to the
disastrous implications of climate

change. Pakistan, owing to its geographical location, is highly vulnerable to climate induced calamities. It has posed multiple threats to the already fragile economy. If we take a glance of the challenges, the country is facing due to climate change, it includes increase in average temperature which results in more extreme heatwaves, changes in weather patterns, frequent droughts and land degradation. Further, the melting of glaciers has risen the sea level due to which recurrent floods have become norm. Similarly, food and health insecurities are growing, further exacerbating the situations. Besides, it is shrinking the already fragile

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economy in form of poverty, inflation and demand for a high fiscal balance for reconstruction of infrastructure.

Moreover, biodiversity is at stake due to growing threats of global warming.

Nonetheless, there is always a light at the end of dark tunnel. Similarly, the menace of climate change can be curbed by implementing some pragmatic measures to limit the emissions of green-house gas emissions.

In addition the country should take initiatives to use green technology such as use of re-newable energy sources and invest in electrical vehicles. Likewise, the country should also launch a nationwide afforestation and

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Public awareness campaigns to raise a sense of responsibility among masses.

All in all, this essays discusses the challenges faced by Pakistan along with some ways forwards to mitigate the menace.

Climate refers to a long term weather patterns of a particular region. Climate change refers to change in weather patterns including temperature, humidity and precipitation primarily caused by human activities such as burning of fossil fuels.

The geo-economic position of Pakistan makes it highly vulnerable to climate change - Pakistan is 5th most vulnerable country to climate change, despite contributing just 0.82% to global greenhouse gas emission.

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The year 2024 has been marked as the warmest year in the entire history of Pakistan. To begin with the challenges faced by Pakistan due to climate change, it has risen the average temperature resulting in extreme heatwaves. According to UN report, From 1960 to today the average temperature has risen by 0.5°C with projections suggesting an additional rise of 1.3 to 1.5 percent by 2050. These heatwaves have adverse impacts on weather patterns. It has led to novel phenomenon such as non-riverine floods and cloud burst. Hence, rise in temperature is one of the major threats posed by climate change.

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Further, glaciers are melting at an alarming rate which resulting in rise in sea level and recurrent flooding. The HinduKash KarKorum Himalaya region, known as water tower of Asia, is home to more than 7000 glaciers, serve as largest fresh water reservoir, is melting at a high rate. This melting results in rise in sea level threatening coastal communities and low lying areas. According to Karachi tidal station, there has been seen 1mm/year increase in sea level. Glacial melting also results in recurrent flooding such as floods of 2010, 2011, 2020 and 2025. damaging infrastructure of billion dollars and displacing millions of people. Thus,

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glacial melting is the gravest phenomenon resulting in multiple calamities.

Similarly, climate change has led to decrease in crops yield resulting in food insecurities such as flour crises in Balochistan in 2022. Water borne and vector borne diseases such as malaria and diarrhoea have become normal leading to health insecurities.

In marginalised areas of Sindh and Balochistan, thousands of people die due to food shortage and malnutrition every year.

Hence, growing food and health insecurities - all thanks to climate change.

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Besides, the far reaching impacts of climate change are proving fatal to further weaken the already fragile economy. For instance, the flood of 2022 has submerged two-third of the country, causing \$14 billion loss of infrastructure. According to economic survey of 2022-2023, inflation has risen by 29 percent in Fiscal year 2023. Along with that according to World Bank report: The economy of Pakistan is further subjected to 20 percent decrease in GDP due to climate change. Hence, climate change is altering the economy of country by making it more fragile.

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Moreover, the biodiversity is at risk due to destruction of ecosystem. It is feared that there will be no beautiful species around us after some year. Thousands of birds and animals migrate to cool areas year disrupting the natural balance of the ecosystem. According to a report, each one million out of five million is at risk due to climate change. Hence climate change is damaging ecosystem by destroying biodiversity.

Nonetheless, there is always a light at the end of dark tunnel, the menace of climate change can be curbed by

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implementing some pragmatic measures - The first and foremost step in this regard is, the country should limit greenhouse gas emissions by implementing strict laws and penalties -

In addition country should take initiatives to use renewable energy sources such as solar and wind energy for power generation - Quid-e-Azam Solar park is a good initiative, country should work to launch such other projects - Government should also invest in electric vehicles to limit hazardous impacts of burning of fossil fuels. The ^{launch of} electric buses is an admirable initiative in this regard - Likewise, country should launch global afforestation

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campaign - Ten billion trees program was a commendable effort - Government should work on further similar programs since trees serve as a tank of oxygen and absorbing carbon dioxide. Lastly, the government should launch a nationwide campaign to aware people about disastrous implications of climate change - Social media can be deployed for this noble cause.

In a nutshell, climate change is one of the significant threat, particularly for developed countries like Pakistan. It has multifected impacts including environmental threats such as floods, droughts, glacier melting

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heatwave and rising of sea level- Beside environmental threats it has adverse impacts on food, health and economy of country. To curb all these threats some pragmatic measures such as use of green technology, afforestation and nationwide awareness campaign is the need of the hour.