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Batch: JSB-067

Essay :- "Climate Change: Causes and Consequences"

Brainstorming

Consequences	Causes
→ Rise in Temperature	→ Deforestation
→ Melting of ice and glaciers	→ CFC's
→ Rising sea levels	→ Greenhouse gases
→ Health, food and economy	→ Transportation
→ Migration and displacement	→ live stock
→ Governance issues	→ Volcanic activities
→ Inequality & instability	→ Industrialization
→ loss of biodiversity	→ Solar variability
→ Floods and disasters	

Outline:-

1. Introduction:-

1.1 Attention Grabber

1.2 General Statement / Background

1.3 Thesis statement:- In Pakistan, Climate change is caused by many - natural and anthropogenic factors that are adversely impacting its environment, human life, and the social - political structure of Pakistan. Despite contributing the least to global climate changes, it is one of the most vulnerable country when it comes to climate change.

2. Causes of Climate Change:-

2.1 Natural Causes of Climate Change

2.1.1 Volcanic activities

2.1.2 Solar Variability

2.1.3 live stock.

2.2 Anthropogenic Factors

2.2.1 Greenhouse gases

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2.2.2 Chloroflurocarbons (CFC's)

2.2.3 Deforestation

2.2.4 Industrialization

2.2.5 Transportation

3. Consequences of Climate Change

3.1 Environmental Consequences

3.1.1 Rise in Temperature

3.1.5 Floods and Natural Disasters.

3.1.2 Melting of Ice and glaciers

3.1.3 Rising Sea levels

3.1.4 Loss of Biodiversity.

3.2 Effects on Human life

3.2.1 Health Impacts

3.2.2 Food and water Security.

3.2.3 Economic consequences.

3.2.4 Migration and Displacement

3.3 Social - Political Consequences

3.3.1 Challenges to Governance.

3.3.2 Economic inequality

3.3.3 Political instability.

4. Recommendation

5. Conclusion.

"Climate Change: Causes and Consequences"

"When despair of the world grows in me
and I wake in the night at the least sound
in fear of my life and my children's lives may be,
I go and lie down where the woods drake
rests in his beauty on the water, and the great
heron feeds"

(Wendell Berry: The peace of wild things)

Climate change is a global issue - The issue is more than the rise in temperature and is becoming a security challenge, mankind was not ready to fight. Around the globe, little to no efforts are being made to solve this issue. Unfortunately, Pakistan is one of the most vulnerable ^{country} to climate change and its adverse effects. There are many natural and Anthropogenic factors that cause climate change in Pakistan. And it is negatively impacting the environment, human health life and the social-political structure of Pakistan.

Climate change is caused by many factors including Natural factors - These include volcanic activities, solar variability and livestock. These are the factors that occur naturally and cannot be controlled by human beings. Firstly, when volcanoes erupt they release gases like Sulphur dioxide (SO_2) and carbondioxide (CO_2) which cause changes in temperature. In Pakistan, the volcanic activities are minimal and their effects are almost neglectable.

But the global volcanic activities do effect Pakistan and its climate. Secondly, solar variability that effects the amount of solar radiations recieved by Earth. In Pakistan, it can create occasional fluctuations in temperature and weather patterns. Lastly, livestock also exacerabates the climate change. Livestocks produce methane (CH_4) as a part of their digestive process. Methane (CH_4) is a potent greenhouse gas that traps sunlight 25 times more effectively than CO_2 . In Pakistan livestock emits methane that adversely effects its climate, contributes to deforestation and effects water consumption. Although the natural causes of climate change are not as harmful as the man made causes, they still effect our environment and contribute to climate changes.

Another major cause of climate change are the anthropogenic factors that includes emission of greenhouse gases, CFC's, increasing deforestation, industrialization, and Transportation. Greenhouse gases (GHG's) are one of the major causes of climate change. They trap sunlight and increase temperature of Earth. Human activities like transportation, industrialization, burning of fossil fuels release a very large amount of GHG's. Pakistan contributes less than 1% in emmission of GHG's but is the most vulnerabile when it comes to climate change. Similarly, CFC's deplete the ozone layer

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that affects the climate. Another major cause of is deforestation. Ideally, 25% of land should be covered by forests in a country. Unfortunately, in Pakistan less than 6% of land is forested which causes soil erosion, loss in biodiversity, lesser rainfalls.

Similarly industrialization also causes climate change. The harmful gases released from industries and the toxic waste pollutes air and land that negatively affects the climate. Lastly, Transportation including cars, bikes and buses etc. release huge amount of carbon. Pakistan is responsible for less than 1% emission of GHG's out of which 30% is emitted by use of transportation. Overall these anthropogenic factors contribute largely to the climate change than the natural causes.