## Climate Change and Responsibility of International Community

Introduction
Thesis statement: climate change has posed grave that ingus
for humanity and has disproportionally affected the
already vulnerable nations with negligible emissions, which
underscores the responsibility of International Community to
takke this global threat through equity and collaboration.

2) Understanding Climate Change

- a) Definition
- 6) Mechanism

a) Natural Causes

- i) Solar Radiations
- ii) Volcanic Eryptions
- iii) Orbital changes

b) Ituman Activities

- i) Industrialization
- ii) Urbanization
- iii) Deforestation

4) Inneats of Glinate Change

a) Increased frequency and intensity of national disasters

Irrelevant details

- 6) Low of Biodirersity
- e) Food insecurity
- d) Infrastructure damage Phrase it correctly
- e) Existential threat to island and coastal areas
- f) Climate refugees
- g) Increasing tensions between nations over resource startet

s) Responsibility of International Community

- a) Adopting sustainable Practices
  - i) Renewalke Energy
  - ii) DAC and Carbon Mineralization
  - ii) Vertical and Precision farming

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b) Assissting Vulnerable milling i, climate financing Transfer bunology transfer ii) Capacity building e) Ensuring climate Justice ij Eglistase Responsibilitý ii) Loss and damage fund and Technologia Redeary d) Promoting Innovaling i) Green technology ii) sustainable practices e) Raising Awareness and Education i) Global Campaigns i) Clinate Education iii, Helping Nad f) Taking adaptive Measures i) Disaster Bragaredness ii) Climate Resistent Infrastructure

6) Conclusion

Climate change is one of the most pressing challenges of 21st Century, transcending borders and threatening the very survival of burnanity.

The deteriorating environment has been widerced by increased frequency of natural disasters, resource scarcity and biodiressity loss from rising sea levels causing existential threat to island and coastal communities to increasing tensions between nations over resource scarcity, climate change has impacted many lives. Although the developed and industrialized nations are mainly mainly responsible for climate change as they are the major emitters of greenhouse gases, the poor countries usually bear the brunt due to lack of resources. the intunational community holds unique responsibility in this regard - ensuring dimale justice through equity, collaboration and accountability. The challenges posed by climate change, though unprecedented in scale, can be tacked through swift and collaborative measured

The phenomenon of long-term variations in weather patterns one reffered as climate charge. It is caused due to unhealthy concentration of greenhouse gases such as carbon dioxide (LDz), sulphur dioxide (SDz) and methane (CH4) in the atmosphere. These gases trap the solar radiations coming from the Sun in the atmosphere, presenting them from escaping back into space. These



The surface of the Earth, ultimately increasing the global temperature According to the futernational Intergovernmental Panel on Climate Change (IPCO), the global temperature has risen by 1.1°C as compared to pre-industrial era. Without adequali measure, this temperature to likely to rise begond 1.5°C and 2°C, causing catastrophic damage.

Charact change may result from natural phenomena but the scale and speed in so minute, that it may lake decades or even centuries to become apparent these phenomena may include solar exeptions reliations, volcanic eruptions or orbital changes there are in solar radiations warms up the Earth, giving vise to global temperature.

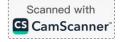
Volcanic eruptions release raisive amounts of carbon dioxide which trap the solar radiations, causing greenhouse effect. Similarly, or bital changes disrupt weather patterns resulting into unusually extreme temperatures in different and.

The current accelerated increase in global temperatures and climate change is mainly attributed to human activities Scientists have observed this unprecedented vicrease in temperature in the past few decodes. Therefore, a direct link can be established



between climate change and the era of Industrialization. First of all, Industries require huge portions of land, for which firests are cut down. Forests are known for absorbing carbon dioxide and regulating me global temperature. Therefore, with no trees, carbon dioxide is left into the air. Secondly, industries mainly rely on burning of fossil fuels as their source of energy, which releasis massive amounts of carbon diord. This further increases the livels of carbon dioxide in the atmosphere, contributing to global warning. Moreover, industrial activities release harmful chemicals including sulphur dioxide (soz) and ntrogen oxides (NOx), Uliading to acid vain. Additionally, industrial waste consists of teoxic pollutions vivile industries are essential for human growth and development, sustainable practices should be adopted to make them environmental - friendly

Rapid increase in urbanization is another major contributor towards global warning Concrete roads and infrastructure prevent rain water to Benetrate into soil, decreasing the water table Fuel whicles release smoke into the air, contributing to air pollution. Improper disposal of domestic waste leads to open dumping, which repreleases



harmful chemicals into the air and soil AU in & all, unbanization creates a cascade of problem if sustainable practices are not adopted.

Another major reason leading to global warming is deforestation Forests are said to be natural carbon sinks at they absorb large amounts of carbon dioxide. Forests are being out dogn at an alarming rate for industrialization, urbanization and agricultural practices. This results in massive concentrations of carbon distide into the air leading to climate change To address this, afforestation—cultivating barren land—and reforestation—plantation in areas where there once were trees—should be savied out at large scale under swift action

Climate change has posed imprecedented timeat to humanity as evidenced by increased frequency and intensity I natural disaster. Global warming refers to increased global temperatures which has resulted into intense healwards. Increased temperatures also cause rapid evaporation of water from soil and land, intensifying drought conditions. Moreover, high temperatures also warm up the sea which increase the energy of storms, making them more bethat white climate change is mainly associated with global warming and increased temperatures, it also increasing the intensity of cold waves resulting he into hypotherming



frostbite and respiratory diseaseses The IPCL and World Meteorological Organization (WMO) have observed a direct link between increasing number of disasters and climate change.

Loss of biodiresity is another major threat posed by climate change. It destroys the ecosystems - natural habitate of species - causing existential threat to animal Moreoger, ecosystems are natural carbon sinks. Additionally, they are a course of food, medicine and livelihood for many humans underscoring the need to protect those According to United Nations Organization (UNO), around one million species are at vist of extinction due to Climate change.

Extreme temperature conditions adversely affect the crop yield tecording to some studies, for every 1°C rise in temperature, the yield of some crops dureases by 10°M Moreover, natural disasters - intensified by global warning - result into massive destruction of crops for example, the floods in 2022 in pakistan affected 33 million people and destroyed buge portions of crops and tiretin livestock, resulting into major food shortage in the country.



Extreme temperatures destroy the infrastructure of material, increasing the maintenance rost.

Additionally, disasters such as hurricanes, floods, trunamis, etc. destroy roads, building, and power lines faccording to world Rank (WB), foods in Pakistan in 2022 resulted just an economic loss of 30 billion dollars.

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Anatol linen in his COBRINGEREDIENCA Hard country" described Pakistan as a resilient nation with no threat to its existance but bre: Climate change. He emphasized that it is a grave threat not just for Pakistan but whole of south Asia, having the capacity to cause calastrophic damage. Today, island and coastal countries are facing existential threat due to climate change for example, Bonghodesh with annage elevation of 1.5 meters above sea level, face multiple floods annaly. According to IPCC, around 20 million people in Bangladesh will be deported by displaced by 2050 due to floods. Maldines, an archipelago with its land baxely above sea level, risk complete submergence by 2100 Similarly, me countres of Turalu, Kiribati and Marshall islands face similar existential throat.

Disasters - intensified by global warning - result into a deportation of people. Displacement further causes cascade of problems as people are priced to live in concentrated, unhejoinic



camps. The unsanitory conditions are rise to diseases such as dengue, malaria and clatoro cholera. The people in such cases often lose their livelihood, becoming unable to support themselves and their familiar. The tragic loss of life and symbolar cause psychological problems such as depression, anxiety, et. among refugees. The International Organization for Migration (IDM) has observed direct relation between climate refugees and global varning.

Prisoner of Geography" by Tim Marshal in a well acclaimed book published in 2015 In his book, he explained how environmental politics can lead to conflicts, especially in resource stricken areas climate thange is often termeds as "Its reat multiplies". While it may not have the ability to cause wars it does have the potential to exacerbate existing tensions, especially in countries already facing political instability, resource searcity and historical grivances. For example, Pakistan India water dapute has been a possiblent issue ever since the niception of two countries.

The threats posed by climate change disproportionally a feet the already vulnerable nations as they are unable to protect themselves



against the disasters the developed nations, which are the major carbon emitters, are mainly responsibilly responsible for climate chargo. In this scenario, it is the duty of developed nations to reduce their emissions and at the same time, help vulnerable communities who are facing the brunt of their advistors.

It is a stal responsibility of international community to adopt sustainable practices to curb the adverse effects of climate charge. Renewable energy - solar, wind, biothernal and hydropower - should be adopted to ensue clean environment. Moreover, techniques such as Direct Air Capture (DAC) and carbon mineralization such should be adopted in industries to make then more environmentally friendly The DAC separates carbon dioxide from the air which can then be stored underground or utilized in product. Carbon mineralization is a technique in which canbon dioxide is reacted with mineraly to turn them into carbonator which can then be used in construction material. Similarly, sustainable practices such as vertical farming and precision farming using Artigicial Intelligence (A1) should be adopted in agricultural mactices which ensure optimal of land and resonred.



Paris Agreement, signed in 2012 during Conference of Partres 27 (COP27) adopted the mechanism of climate financing to assist developing hatims in combating climate charge the developed nations should priortize climate financing with proper responsibility Moreover, they should ensure the transfer of technologies to nations who are unable to afford those. Advancements in the field of green technology must be should with the world to ensure complete transition from fossil fuels Additionally, the developing nations much also be equipped with adequate skill and machinery to ensure their capacity building.

The world has should but differentiated responsibility in fighting climate change because the effects of global warming are disproportionally affecting the interested nations with barely any carbon envissions of this regard, the interestoral community holds the responsibility of ensuring climate justice among all. To developed nations must be held accountable for global warming loss and damage fund, contibuted by dweloping nations, must be ensured. We industrialized nations must be ensured their emissions, while at the same time, it must be ensured that the emeging expromises and developing nations adopt sustainable practices



Technological research and innovating in green technologier should be promoted the world should work together to make renumbe everytes efficient and affordable for all. More over, investment in justainable practices should be ensued for a clean and healthy environment.

Education plays a vital role in fighting any ent therefore, to fight climate change, global campaigns should be organized, so that people understand the risks involved and work towards their neitigalism. Climate education should be promoted in schools and universities. Moreover, government should help the Negos working towards this cause only through an informed youth and citizens, a country can take alequate steps to miligate climate change.

Taking adaptive measures is another crucial element in combating climate change. Proper warning system should be established to inform the public before any disaster so that they may evacuate the area beforehand. The citizens should be trained to tackle the disasters. Moreover, disaster resistant infrastructure should be promoted. For example, green infrastructure helps in rainwater harvisting and it also acts as carbon sink.



Climate change poses not only environmental threat, buts it also results in social and economic loss, threating the very survival of humanity It is a global problem, disproportionally affecting the developing nations; although the developed economies are mainly responsible for global warning as they major carbon emitters. Therefore, the community must ensure équitable international responsibility among all states. Sustainable practices be adopted through Collaborative to create a "clean and health that not only survices but thrives sustainable world is within reach.