

Day: Saturday

Date: Oct 26th, 2024

Q:1 write an essay on "The threats of global warming and ways to counter it"

Outline

A Introduction

B Threats of global warming:

- 1 Level of sea water rise comes under the threat of global warming.
- 2 Increase in air pollution is another threat of global warming.
- 3 Increase in global temperature has also caused drastic floods.
- 4 Economic losses is another leading threat faced by global warming.
- 5 Poor crops production is also one of the major threats of global warming.
- 6 water crisis is severe threat due to drastic increase in global temperature.
- 7 Food insecurity is another threat of global warming.

C ways to counter global warming:

- 1 Reduction in Green House Gases ultimately reduces global warming.
- 2 Reduction in burning of fossil fuels leads in reduction of global warming.

- 3 Promote forestation that will significantly mitigate global warming.
- 4 Maintaining sea ^{water} level is another method to control global warming.
- 5 Budget allocation on Prevention of global warming will also reduce global warming.
- 6 Use of renewable energy sources that will decline harmful affects of global warming.
- 7 Community awareness on hazards of global warming will also mitigate global increase in temperature.

D Conclusion

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Climate scientist and former NASA researcher James Hansen said, "global warming isn't a prediction. It is happening."

This quote relates perfectly to our topic that mentions threats of global warming and its ways to counter it. Global warming is a worldwide known phenomenon that indicates rise in temperature of earth. It has become an alarming issue since 19th century and became an important threat to global peace.

Global warming has severely impacted both land and marine life of earth which caused many problems for mankind. Rise of sea water level, ^{and} increase in air pollution are threats of global warming. Increase in global temperature has also caused drastic floods worldwide. Global warming has also caused economic losses to various countries. Contrary to threats, Reduction in greenhouse gases will significantly reduce global warming. Reduction in burning of fossil fuels also reduces world's temperature. Promotion of forestation

that helps in reducing global warming. Global warming is also controlled by maintenance of sea level. ^{Human} It is evident from number of facts that global warming has become a serious threat which needs to be countered.

Sea water increased level is one of the threats of global warming. Human activities cause increase in global temperature which ultimately increases the level of water in sea. Sea water has also increased due to melting of glaciers and icebergs. Global warming is continuously impacting glaciers and icebergs that ultimately enhances sea water level. For example, according to IPCC (Intergovernmental Panel on Climate Change) 2023 report, "average rate of sea level rise was 1.3mm/year between 1901 and 1971 which has risen to 3.7mm/year between 2006 and 2018". Thus rise in seawater level is an alarming threat of global warming.

Increase in air pollution is also another

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threat due to global warming. Increase in air pollution means the concentration of harmful gases are contaminating air increasingly. Air pollution occurs due to many anthropogenic activities that directly impacts our air.

These activities disturb concentration of gases in the air. According to article, **Global Climate Change as a Threat to US National Security** by Emilio Morales, 2020. Massachusetts Institute of Technology surveyed that 200,000 Americans have died each

year due to poor air quality mainly due to concentrations of ozone. Hence, this shows that increase in air pollution is the threat of global warming.

Another threat faced by global warming is the risk in drastic floods. Drastic floods occur due to earth's rising temperature that affects our water reservoirs. These floods cause huge casualties, infrastructure loss, crops failure, economic losses and other water borne diseases.

According to article "Water Crisis in Pakistan: Manifestation, Causes and Way Forward" by Nazam Maqbool 2020,

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2010 floods in Pakistan has caused direct loss of 10 billion dollar and 1600 casualties. Thus global warming poses an alarming threat of drastic floods.

Moreover, economic losses is another threat due to global warming. Economic losses represents loss in economy or money of an individual, community or a government. These losses occur due to floods, droughts, diseases, resource crisis and ecosystem deterioration that directly links to global warming. Thus global warming causes economic loss by these factors.

Emily Jackson in an article ODI paper: Calculating climate change related to loss and damage from extreme weather in SIDS 2020, total economic losses for all SIDS (small island developing states) over 22 years is amount to 105 billion \$ of which 38.4 billion \$ can be attributed to climate change. Hence, global warming imposes threat of economic losses.

Another threat of global warming is poor crops production. Crops production become deteriorated and slowed down due

increased earth's temperature: Crop production: like generation of wheat, maize, rice, cereals and various pulses require specific temperature conditions. Above than optimum temperature causes failure in crops production. In an 2008 report, "International water management institute: Saving water from field to fork", Dr Jacques Di G of FAO (Food and Agricultural Organization) has warned 5% decline in cereal production in many developing countries by 2020 due to global rise in temperature. Therefore it proves that global warming imposes threat of crops failure.

Despite above threats, water crisis is another major threat due to global warming. water crisis is the shortage of water in water reservoirs like oceans, seas, rivers and dams. The scarcity in water occurs due to increased global warming. global warming has been involving in shortage of water since late 19th century. "According to an article, "global water crisis and future food security in an era of climate change"

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by Muni A. Hanjra 2010, global water demand has tripled since 1950 and 3 billion people will live in water stress by 2025. Thus, it indicates that "global warming imposes an alarming threat of water scarcity in various parts of the world."

Lastly, food insecurity is another threat of global warming. Food is not secured due to drastic weather changes that occur due to global warming. Many continents of the world like Asia^{and} Africa are facing food insecurity. Majorly affected areas are in sub-Saharan Africa, Sudan, Democratic Republic of Congo, Kenya, Somalia, Pakistan, India and Bangladesh. Report by state bank of Pakistan FY 2019 on the state of food security in Pakistan states that Pakistan has ranked 106th out of 119 countries in Global Hunger Index. This drastic increase in global temperature has greatly impacted food security.

The first way to counter global warming is reduction in green house gases. Greenhouse gases are gases such as carbon dioxide

CO_2 , methane CH_4 and Chlorofluorocarbons emitted from anthropogenic activities such as burning of fossil fuels and deforestation. Global warming can be mediated through reducing these gases.

Such gases should be replaced or minimal quantity must be used in order to decline global rise in temperature. According to Intergovernmental panel on climate change IPCC 2023 report, global surface temperature was 1.09°C higher in 2011-2020 than 1850-1900 which was $0.95 - 1.20^\circ\text{C}$. Greenhouse gases emission has caused global surface temperature upto 1.1°C . Thus by reducing these gases, global warming will also be reduced.

Reduction in burning of fossil fuels is the second measure in reducing global warming. Fossil fuels mainly formed from carbon and hydrogen like coal, oil and gas. Burning of these fossil fuels such as coal, oil and gas is also generating electricity and use in many energy sectors. Despite its positive effects, its burning releases hazardous gases into atmosphere that ultimately enhances global warming. For example, in an article 'Global

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warming: facts, assessment, counter measures" by Dagobert G. Hessel, 1999

Continuous use of fossil energy will lead to increase in average global temperature by 1.0 - 3.5°C in coming 50 - 100 years.

So, reduction in burning of fossil fuels will ultimately decline global warming.

Implanting forests is another significant way to reduce global warming. Forests are densed with trees that not only gives humans oxygen, food and shelter but also minimizes harmful air gases. Forests reduce rising temperature but deforestation causes emission of gases like Carbon dioxide, methane and nitrous oxide that increases global warming.

4th "GUCN commission on environmental, economic and social policy"

October 16th, 2003, World bank established 250 million \$ on forest carbon partnership FCPF to avoid deforestation. Thus implanting forests minimized global warming significantly.

Maintaining seawater level is another measure to control global warming. Sea, ocean, coastal and other water bodies capture

Carbon dioxide and helps in reducing global warming. Sea level is disturbed due to ongoing global warming which not only drastically impacts aquatic ecosystem but also land areas. This raised level further became causing agent of floods, droughts, infrastructure damages and economic losses. **UN report on Climate and Environment states that sea levels will rise by 20 cm between 2020 and 2050.** Therefore maintaining sea level will reduce global warming.

Budget allocation in prevention of global warming is one of the measures that will reduce global warming. Countries must take global warming a serious issue and allocate necessary budget on its prevention. This will address many weather and climate changes problem.

For example, in an IMF report 2023, global climate targets would require annual investments of approximately 2 trillion \$ to 2.5 trillion dollars over the next decade. Thus global warming will

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surely be controlled by allocating budget.

Use of renewable energy sources in mitigating global warming will be another counter measure. Renewable energy sources are those which can be used and recycled. These are environment friendly sources that reduce global warming. These are hydro power, solar and wind. For example in an article "Energy crisis in Pakistan: causes and consequences by Anwar Nawaz Khan,"

Alternative Energy Development Board of Pakistan has set a target of achieving 5% of total power generation capacity i.e. 9700 MW through renewable technologies by 2030. Thus use of renewable energy sources for power generation will also mitigate global warming.

Lastly, Community awareness on hazards of global warming will also significantly reduce global warming. Community awareness through various means such as print and electronic media. Global warming will be reduced by broadcasting special programmes on its prevention on TV and other social.

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media platforms. Community will reduce the use of such perfumes and goods containing chlorofluorocarbons and other ^{hazardous} gases. According to Pew research center study 2021, about 73% of Americans reported feeling motivated to address climate change and global warming after getting information on these topics. This community awareness plays a pivotal role in declining global warming.

Hence, various threats like poor crops production, water crisis and food insecurity prevails due to global warming but the fact that it can be reduced by various measures such as reduction in burning of fossil fuels and implanting forests. Poor crops production is one of the major threats world has facing due to global warming. Water crisis and food insecurity ^{also} impose serious threats which occurs due to rise in earth's temperature. Despite threats, budget allocation on prevention of global warming will mitigate global warming. Not only use of renewable energy sources but also community awareness

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will also help in declining earth's surface temperature. One must effort sincerely on their own and ^{must} contribute on reducing global warming. Hope is the greatest driving force that leads man to save planet earth from such disasters.

As famous human rights activist and South African theologian Desmond Tutu said,

"Hope is being able to see that there is light despite all of the darkness."

Marks: 100

2020 comprehension :-

Q.1 Define globalization?

Globalization is a process which connects different people across the world irrespective of their economy, culture and political bonds.

Global economy is resulting due to internationalization of production and labour. Information technology has brought nations closer that ultimately increases globalization. Growth of various multinational companies has also increased the process of globalization. The process has also resulted regulation,

liberalism and privatization in developing countries.

what is electronic mass communication?

Electronic mass communication is the process in which people across the globe communicate through electronic media. Information technology plays an important role in enhancing globalization. Globalization is also promoted through multinational companies that work as transport networks.

what does the term 3rd world countries?

Third world countries mean developing countries which are relying on deregulation, liberalism and privatization for improving economy. Fiscal deficit improves in these countries by downsizing public sector and growing private sector.

what is Privatization?

Privatization is the process of private ownership of various goods, production and institutions. Developing countries undergo privatization that increases economy. Fiscal deficit also improves by privatization and downsizing public sector.

what is liberalism?

Liberalism is the political philosophy that promotes liberty and freedom in human rights, public and private institutions. Liberal approaches occur in developing countries that is the result of globalization. Thus, ^{developing} countries are improving their economy through liberalism.