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Global warming: causes, impact and solutions.

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(OR)

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Introduction:

Industrial, agricultural revolution contribute tremendously towards the social, political, economic even in cultural development of the world, ^{due to} these but increase in human activities of revolutions ~~climate change risk become increased badly~~. Global warming is an average or gradual increase in the temperature of Earth. As due to population explosion, rapid urbanization, increase level of green house gases along with other, impact badly on earth by increasing sea level, melting of glaciers, and increasing disaster.

x (ratio can be deal ^{properly} through pragmatic solution) x
~~However these can be overcome through pragmatic solution~~

Thesis statement:

Population Explosion, Rapid urbanization, increasing level of green house gases, wild fire, deforestation along with other ^{badly or} impact human beings, environment and plants ~~which can be overcome by taking pragmatic solution~~

B- causes of Global warming:

a) Green house gases:

One of ^{the} major cause of the global warming is increasing level of green house gases. Green house gases had ability to trap, absorb or scattered heat. These gases are CO_2 , CH_4 , water vapour, ozone with other gases.

As per IPCC, "contribution of green house gases toward global warming are following (CO_2 - 16%, NO_x - 4%, CH_4 - 15% and CFC's - 11%, so total contribution are 91%".

~~Due to green house gases, green house effect occur which cause ^{enhance} global warming process called green house effect in which green house gases trap heat, and average temperature of earth increased. Hence proved that, green house gases are the major cause of global warming.~~

b) Massive deforestation:

Another major cause of ^{global warming} massive deforestation. ~~As forests are considered as "carbon sink" as they absorb CO_2 in environment which is the major cause of global warming. As deforestation leads to removal of "carbon sink" so amount of CO_2 in atmosphere increased, due to which increase in global warming occur.~~

As per NOAA, As amount of CO_2 increased upto 242 ppm

As per Global forest watch, More than 350 tons of hectares have been destroyed in the world in last five year.

work on your grammar

do not write in pronoun form please

~~so we can clearly say that, massive deforestation leads major role in global warming.~~

(c) Population Explosion:

Further more, population explosion is also the major cause of global warming. As population increased so demand intensified energy also increased due to which rapid deforestation, urbanization etc done to meet their need. Due to these activities of human, pollutant and gases added into environment leading to increase in temperature of earth. As per UN census bureau "1980 (3 billion), 2000 (6 billion), 2022 (8 billion) and 2024 (currently) 8.1 billion population of the world." As number of people increased remarkably due to which the demand of energy increased, which result into increased in consumption. At nuts shell,

in real paper avoid writing in passive please and never write in headings

we can say that population explosion is considered to be major cause of global warming.

d) Rapid Urbanization:

Moreover rapid urbanization leads to the major cause of global warming as number of people increased, demand of construction increased due to rapid urbanization by using fossil fuel (CO₂, CH₄ etc), global warming increased. Due to modern revolution in industrial, agricultural sector increased which aggregated 71% of global warming in world. As per UN report of 2015, 54% of world population has become urbanized till 2014. Hence it proved that rapid urbanization leads to global warming.

e) Generation of solid waste:

However generation of solid waste also play a role of a major cause of global warming.

Solid waste generated in great amount in world annually due to which pollutants added with atmosphere which leads to an increase

in earth atmosphere. As solid waste in great proportion is nondegradable in nature, as it play a leading role in global warming. As per

NASA, more than 350 tons of solid plastic is generated annually all over the world.

As in Pakistan, 15 tons of plastic generated annually. Moreover we conclude it by saying

that generation of solid waste is the major cause of global warming.

f) Wild fires Eruption:

Among other causes, wild fire is also a major cause of global warming. All over the world wild fires incident increases. As wild forest

is considered to be carbon dioxide sink, when

eruption of wild fire occur then the level of CO₂ increased with dust particle, particulate

matter and along with ashes, leads to

an increase in global warming. As per wild fire

records, 2023 - wild fire in Greece and Canada, 2022 - Braziline wild fire, 2021,

Turkish wild fire, 2020 - Amazon wild fires,

2021 - California wild fire. Hence it proved

that eruption of wild fire leads to the major cause of global warming.

C. ~~Impact of Global warming :-~~

a) ~~Rising sea level.~~

One of the major impact of global warming is sea level rising. As sea level rises continuously in recent decade, sea level rises due to thermal expansion of ocean water as water become warmth and its expands. As per NASA, About 8 inches global sea level raised over past century.

As per SROCC, the global sea level mostly likely between 0.95 feet and 3.61 feet over the past few century. As rising sea level had adverse effect on man and his environment. Due to rising level, the ratio of flood become increased over past few year tremendously. Hence it proved that rising sea level is one of the major impact of global warming.

b) ~~Impact on Human being~~

Moreover global warming had greater impact over human beings. As due to global warming, temperature become hotter day by day. ~~and~~ Because of it heat waves ~~and~~ become more intensified, and effect human more badly and more number of people died. Due to global warming diseases ratio increased which effect human being badly. As per 3.5% dengue, 3% malaria and 3% typhoid cases are contributed due to climate change. As climate become warmer and increase risk of illness and death and poor air quality. ~~It is clear to say that global warming effect~~

human health and threaten human life, by acting ~~major~~ ^{as} ~~major~~ impact on human health.

c) Impact on Agricultural sector

Eventually, global warming had adverse impact over agricultural sector. It lead to more intense warmer or cold temperature, due to which crop pattern disturbs. As global warming have significant consequence on food agricultural supply. Due to global warming, storms, flood, and drought increased tremendously due to which crop production become affected. As per 2020 report, 40% mangoes production losses in Pakistan. In Pakistan it is predicted that agricultural production will decreased by around 60-10% by 2024 due to climate change. (Cradock - 2020). Therefore we can say that global warming impact production of crops badly.

d) Threat to life:

Along with other, global warming is threat to the life. As it impact on life of human and become dangerous for living being. As temperature become warmer and warmer, due to which death of human being occur. Additionally, due to global warming, food scarcity, poverty and displacement and loss of species arises. Due to this, more health issues arises. As per WHO, temperature rises in china (Xinjiang) upto 52° in 2023 and in UK London city upto 40° in 2022.

As per IPCC, climate change due to global warming become increasing very fastly and will become more severe sooner than previously. In reality global warming become threat to the lives and it is one of the major serious impact of it on man and his environment.

e) Increasing conflict between states:

Added to other impacts of global warming, one of major impact of it is increasing of conflict between states. As ~~by~~ through water scarcity, exacerbated by climate change often leads to ~~attens~~ conflict ~~for~~ states for accessing this ~~water~~ resources. As global warming exacerbated water shortages in already water-stressed regions having mutual sharing of water resources. India and Pakistan conflict over water and Afghanistan and India conflict. So we can say that it play a leading role in making conflicts between states.

g) Melting of glaciers:

Eventually one of the major impact of global warming can seen in form of melting glaciers. As due to global warming temperature become hottest and glaciers become start melting due to which ratio of floods increased. As glaciers are the major source of freshwater for mankind as it start melting and become part of ocean so then water scarcity had been will occur. As per NASA, Pakistani glaciers are the most rapidly melting glaciers in world.

~~As per NASA~~, European glaciers are the second most rapidly melted glaciers in the world. As glaciers are the major source of water for human being on earth. On the whole we can classify melting of glaciers as one of the major impact of global warming.

g) ~~Increase in frequencies of disaster :-~~

In the end, global warming impact on human life and environment by increased in frequencies of disaster. As global warming is responsible for rise in temperature of 1.2°C from past century which is responsible for shrinking of glaciers and expansion of sea level. Due to which flood, drought, storms and cyclone become frequent. ~~from~~ Due to change in atmospheric temperature, and causing of higher sea levels, which in turn increase the duration and intensity of disaster. **As per 2013 report of Flood**, flood in India, ~~Kerala~~ flood in Pakistan, flood in China, Lahore urban flooding, Kerala urban flooding. ~~We can conclude that global warming impact on environment nature by increasing frequency and intensity of disaster.~~

D- ~~Solution of global warming :~~

(a) ~~Forestation :-~~ For the most part, forestation is one of the best solution to counter global warming phenomena. As forests are considered as carbon sink which absorb carbon dioxide in atmosphere which is regarded as one of major green house gases.

responsible for trapping of radiation. As more the forestation, less emission of CO₂ green house gases in environment. As due to population explosion, human need forests to meet their needs so they should ~~reforest~~ opt a forestation after deforestation. As per study report by Crouther lab, they found that adding 0.9 billion hectare trees would increase the amount of forested area by ^{more than} 25%. This could absorb 25% of atmospheric carbon dioxide. In fact to counter global warming issue, we should do forestation, reforestation and afforestation to overcome the cause and impact of global warming.

b) Reduction in Green house gases:

In reality, green house gases are one of the major cause of global warming which can be reduced through strategic approach. Use of CFC's should be least, appliances such as A/C, refrigerators should have less or no emission of green house gases. Hydro electric cars/vehicles should be used to overcome the emission of CO₂ from vehicles. Green house gases should be reduced by taking sustainable strategic goal promotion. At the end we can reduce the emission of green house gases by taking some initiative steps towards for alternative things.

c) Promotion of Sustainable transport:

Eventually, promotion of sustainable transport will be a pragmatic solution toward global warming issue. Vehicles used of transport emitted carbon dioxide, carbon monoxide, etc

In atmosphere due to which amount of gases increases and phenomena of greenhouse effect become increased which causes global warming. Vehicles or transport system of low or less emitting gases should be introduced. Hydro electric vehicles should adopted for transport system. By planning suitable transport system and environment friendly vehicles, we can tackle global warming issue upto some extent.

d) Signing of agreement between states

Addition to other initiatives to counter global warming signing of agreement between states should be done in favour of climate change. High Taxes should be applied on the things which causes global warming to be exacerbated. Other agreement like Kyoto protocol, montreal protocols agreement should be signed between different states and strongly ratified them, and decide strong punishment for those states which breaks these agreement. Although this will play vital role in reducing global warming.

e) ~~educating nation by giving awareness:~~

At the end, Education regarding this issue should be given to the people and educate them how their activities causes global warming to be exacerbated tremendously over past few year. Each state through seminar, Ad's and arranging different function should educate their people or nation about

this serious issue which have adverse impact on ~~them~~ themselves and their environment.

Conclusion:

There are so many causes of global warming among which major ones includes rapid urbanization, population explosion, deforestation along with others, impacts adversely on man and his environment so to counter these ^{impacts} ~~pragmatic~~ ^{pragmatic} solution ~~there~~ is an immediate need of pragmatic solution. Environment friendly solutions should be taken. As global warming is the issue which require national and international concern as it is threat to human life and environment.

As causes of global warming increasing over few past year having adverse impact through melting of glaciers, rise in sea level, increasing conflict between states, become threat to life and upon human life along with other. So to deal with global warming issue ^{the} solution which reduce the consequence of global warming includes forestation, sustainable transport system, education awareness with other pragmatic solution.

~~This evident that causes, and impact of global warming are so serious and hard to solve. However it can be overcome if all nation and international organization and states work together on this issue by signing different agreement and takes~~

~~strategic taking initiative steps towards this issue, and by promote green chemistry, ^{by and} removing their energy sector demand on fossil fuel and convert it into renewable energy resources to promote good environment~~