

Environmental degradation : climate change / smog .

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Outline .

(I) Introduction :

Thesis statement : The danger of Environmental degradation ~~and~~ is an unprecedented issue ; caused due to climate ~~contrib~~ change contributing factors and harms a majorly..

(II) Un-boxing the term 'Environmental Degradation'.

III) Factors contributing in climate change results in 'Environmental Degradation':

- a) Deforestation is a cause of ~~polluti-~~ habitat loss ; results in more 'Environmental Degradation'.
- b) Massive use of nuclear weapons escalates the pollution in environment .
- c) Industrialization needs more exploitation of natural resources ; consequently , rise in global warming.
- d) Over-population needs more consumption ; results in more industrialization ; resultantly,

increment in environmental problems.

e) Transportation emits toxic smokes; contributes alot in global warming and pollution.

IV) Impacts emerge due to climate change:

a) Bio-diversity loss enhances more violently.

b) Global warming exacerbates more vibrantly.

c) Natural disaster occurs more destructively.

d) Internal displacement ratio increases rapidly resultantlly

e) Poverty and unemployment ratio enhances globally.

f) Health issues escalates gradually.

g) Conflicts escalates violently.

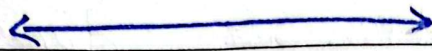
v) Policy Measures to prevent 'Environment from Degration':

a) Reducing deforestation to protect the bio-diversity.

b) Strengthening use of renewable energy resources to protect the environment from pollution.

- c) Using modern tools such as catalytic converters and scrubbers in to reduce the ~~of~~ vehicles and industries to prevent environment from loss.
- d) ~~Exh.~~ Strengthening population control policies like as family planning to the save the whole bio-sphere from damage.

VI) Conclusion.



The natural environment is a ^{kind of} blessing for every living being existing in the bio-sphere, where every specie maintains it's survival by using the resources available. But, unfortunately, today the natural environment ^{has} transformed to artificial environment. This new living world has added more innovations in the planet. The innovations has brought the loss ~~of~~ in natural environment; consequently, enhances the problem of 'Environmental Degradation'. The major contributor of the 'Environmental

Degradation is obviously the 'Climate Change' factor. The Intergovernmental Panel on Climate Change (IPCC) has stated that, "induced climate change is causing significant and widespread disruption to natural ecosystems, leading to environmental degradation". And obviously, the agents such as human activities such as deforestation for domestic purposes, massive use of nuclear weapons in war tactics, and the industrial growth to cover the required consumption contributes in climate issues. Because of these activities, the climate variate agents ^{activate} ~~enhance~~ the problem of biodiversity loss, rise in global warming, destruction due to occurrence of natural disasters and resultly, the internal displacements accelerates. This would not only disrupt the specific region, but also the whole world. To prevent the environment from

big loss, there should implement some policies like as reducing the deforestation to save the eco-system, and using the renewable energy resources instead of non-renewable resources to overcome the problems of 'Environmental Degradation'. As one of the president of United States ^{quoted} mentioned that, "A nation that destroys its soil destroys it-self".

Environmental Degradation is a term that indicates the deterioration of the environment through depletion of resources such as quality of air, water and soil; the destruction of ecosystems; habitat destruction; the extinction of wild life; and pollution. It is defined as any change or disturbance to the environment perceived to be deleterious or undesirable.

The environmental degradation process amplifies the impact of environmental issues which leave lasting impacts on the environment.

A number of factors contribute to climate change which gradually averts the Environment towards degradation. Some of them are mentioned below:

With the start, the most effective activity of human beings - deforestation holds a major portion in the sphere of climate changing agents. As the trees has ability to absorb the carbon dioxide and in return provide oxygen to the environment. It is due to this process, the natural cycle would be balanced. Adding to this, forest not only maintains this natural activity, but also provides home to a number of species. Through its cutting, the wildlife ^{would} become destroyed. It has been reported that "Chimpanzees, Mountain Gorillas and the African forest Elephant are in danger of extinction". More deforestation mean, more addition in carbon dioxide level in environment ~~res~~ and also more loss in habitat, resultantly more

environmental degradation.

Another causing climate change agent is excessive innovation and use of nuclear weapons. These innovations emit nuclear reactors or ionizing radiations such as Gamma rays which react with the natural components such as oxygen and nitrogen and create a highly reactive by-products and consequently, deplete much of the Earth's protective ozone layer. It is due to this, the global warming level rises and harms the survival of all living things. Moreover these weapons also emit toxic fumes which pollute the environment violently. These fumes also become cause of many diseases such as cancer. As it is reported that, "A single nuclear bomb contain 4kg of plutonium-239 and 20kg of uranium-235". This can destroy a major portion area in just a second. Concludingly, more use of weapons, contributes more pollution and more environmental degradation.

Adding to this, another

human activity that activates the climate issues is the rapid growth in industrialization. Industries need natural resources for production. The exploitation of ~~natural~~ natural resources such as coal, oil, and gas and their use in power producing industries; also contribute to cause pollution^{through emission of gases}. Their burning rise the global warming and resultantly, cause environmental pollution. According to the Center for Climate and Energy Solutions (C2ES), industries contribute approximately 23% of total greenhouse gas emissions in the United States²⁰ and 51% in India". This would be a major problem causing agent in the climate change. Hence, more industrialization means more emission of gases, more emission of gases means more global warming, and more global warming means more environmental degradation.

In addition, over-population also contributes majorly in environmental problems. As ~~the~~ more population need more consumption, more consumption leads ^{more} industrial growth and more industries means more waste and more emissions.

This would triggers the climate issues and consequently, the whole environment averts/ towards degradation. Moreover, more population ~~also~~ requires more lands for infrastructure purposes, which leads more deforestation.

In the report of United Nations Development Programme (UNDP), "The global population become 8.1 billion in 2024".

This large population needs more consumption, more lands and more required products. This would indirectly escalate the problem of environmental degradation. Hence, ^{over} population is also one of major factor to degrade the environment.

One more factor, that become cause of climate change is the transportation. The

non-renewable energy resources used in the vehicles emit toxic fumes, which pollute the atmosphere and also rise the global warming.

Intergovernmental Panel on Climate Change has reported that, "Transportation contributes about 15% of atmospheric pollution". This is a hard hitting step to enhance the climate change. Hence, more transportation means more emission of fumes, and more emission of fumes means more rise in population, consequently degrade the environment.

All above mentioned ^{factors} affects the natural environment more violently. Some of the major impacts on environment due to climate change are given below:

First of all, a major impact emerge due to climate change is the loss of bio-diversity. It is due to the green house gases emission and deforestation,

The biodiversities living in the forest destroyed. As it is reported that, "the tropical rainforest regions, particularly the Amazon rainforest, are widely considered to be the most vulnerable and heavily impacted areas due to their high biodiversity and sensitivity to climate change". This would impact the existence of the species in these regions negatively. So, climate change would be a major reason of biodiversity loss.

~~Another major set back of the pollutants addition to environment is the increase in global warming level.~~

Another major set back due to climate change is the occurrence of natural disasters such as floods, earthquakes, and draughts more destructively. It is due to rise in global temperature, the ice-caps melts enormously results in floods, and earthquake and draught. A journal published in Oct 2021 regarding the

climate change where mentioned that, "~~at least~~ climate change has increased the frequency and intensity of natural disasters, which are now occurring more often". So, can conclude that more climate change escalates more natural disasters.

In addition, the settlement issues also emerge due to the climate change issues. As the ^{people of} affected regions due to occurrence of natural disasters move towards the safe lands. It is due to their displacement, their settlement problem also evaluates. The Global Report on Internal Displacement (GRID) 2023 found that, "8.7 million people were displaced by disasters at the end of 2022". This would affect the economy of the effected region to provide food, shelter and other basic needs. So, the issue of Internal displacement also emerge due to climate change. Adding

to this the poverty and unemployment ratio also enhanced due to displacement. As it would become a major problem to provide the requirements and also jobs to the affected people.

Moreover, the health issues also escalates due to climate change. The global warming and acid rain pollutes the environment directly, due to which many dangerous diseases such as cancer and breathing problems would emerge. According to a review published in Nature Climate Change, "of 375 infectious diseases studied, 218 (58%) were made worse by global warming".

This data shows that mostly occurrence of the diseases are due to climate change.

Lastly, one major concern emerge due to the environmental degradation is the geo-political conflicts. As it is due to the global warming, the natural disasters occur more

violently, due to which the displacement rates go high. And it is due to these displacements the poverty and unemployment ratio would enhance. A trend in competition enhance to access the survival requirements. It is due to, the ~~ten~~ geo-political tensions escalate to access resources. As a result, the climate change worsen the geopolitical instability.

Some policies should adopt to overcome the climate change issue and prevent the environment from degradation. Some of them are mention below:

Initially, reducing the deforestation would be a major step to overcome the problem of climate change. With this strategy, the deforestation practices also contribute to save the environment. As it is reported that, "forests ~~cont~~ are home to over 80% of the world's land biodiversity."

To save such a large bio-diversity, the cooperations such as UN and other institutions should bound all to illegal cutting down of forests to save the environment from degradation.

Another step to protect the natural environment is strengthening the use of renewable energy resources such as solar, wind, and water instead of non-renewable natural resources like as coal, oil, and gas. The non-renewable resources contribute majorly to pollute the environment, while renewable resources have not so negative effects on environment. So, all the corporations should implement more renewable energy plants to overcome the use of non-renewable energy resources.

In addition, using fumes filter technology in industries and vehicles such as the catalytic converters and scrubbers to overcome the emission of toxic gases and smokes. As it is reported that,

the catalytic converters after operate at 90 percent efficiency to filter the toxic fumes and gases". This would be a major action to protect the environment from damage.

One more step, to reduce the loss of environment is the population control strategies. As it is obvious that over-population also contributes a lot in environmental damage. So, through strengthening the population control strategies such as adopting family planning policy can also prevent the environment from loss.

In a nut shell, climate change takes a major portion in the ~~etc~~ Environment degrading agents. As it rapidly ~~affect~~ averts the environment towards loss. The growth in industrial sector, the overpopulation factor, and the transportation emissions cause the climate change more rapidly.

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It is due to this climate change the internal displacements ratio, health issues and the geo-political instability would escalate vibrantly. This would not only affects a particular area, but also the whole world. So, to counter the problem of environmental loss, all the states should implement the use of modern tools like as scrubbers and catalytic converters, and also strengthen policies to control the rapid growth of in ~~over~~ population to prevent the whole bio-sphere from degradation. As the author Mohith Agadi - an Indian author mentioned that,

"Environment is no one's property to destroy; it's everyone's responsibility to protect".