

Reforestation As Global Urgency.

natural.
wildfire/
human
activities

1. Introduction.

2. What is "Reforestation"

2. Decodifying the term "Reforestation"

3. Why reforestation is global urgency??

⇒ carbon
sinks.

3a) Reforestation is global urgency in
order to mitigate the impact of heatwaves.

⇒ conserve
deforested
lands → Boon
challenges

i) Forests act as carbon sinks

ii) Forests creates cooling effect

in the atmosphere.

⇒ Preservation
of Biodiversity

3b) Reforestation is necessary for conservation
of deforested land.

⇒ address
water crisis.

3c) Reforestation is the only tool for
maintaining ecological balance.

⇒ mitigate
the impact
of heatwaves.

i) Trees act as sanctuary for
wildlife.

⇒ Improve
air quality
of the
world.

ii) Trees can preserve the life
under the sea.

⇒ hydrological
cycle.

3d) Water crisis can only be addressed
by planting trees on deforested land.

⇒ save
from
natural
extreme
weather
patterns.

3e) Reforestation is necessary to improve
the deteriorating global air quality.

⇒ soil
erosion
prevent.

3f) Plantation of forests is the best
solution to averse extreme weather
patterns.

3g) Reforestation can save the globe
from natural disasters.

3h) Sustainable Development Goals cannot
be achieved without plantation of trees.

3i) Reforestation can create new jobs

impact
of
natural
disasters.
transports

⇒ sea
acidification
water bodies.

⑤
⑤

Impacts
of
deforestation

strategies
needed to
mitigate

Green
Financing

1) Green

Finance

2) R & D

in forestal

seed.

3) Technical

innovation

to monitor

progress.

Conclusion

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, which can lead to improvement of standards of life of indigenous communities

3j) Plantation of new trees ~~can~~ is the saviour of humanity ^{from} ~~of~~ existential threat.

4) Strategies to be required to materialise reforestation.

4a) Green finance is the key to achieve global reforestation.

4b) Research and Development in forestry.

4c) Technological ^{intervention} ~~solution~~ to monitor progress of reforestation projects

5) ~~Solution~~ conclusion.

The Essay:-

The globe is increasingly becoming a frying pan for the human beings. It is because of the persistent increase in temperature, given the removal of lungs of the earth. These lungs are present in the form of forests, which are vulnerable to destruction. It makes renewed plantation of trees a global urgency. The particular reason behind is the mitigation of heatwaves in the world through the carbon-sinking capacities and cooling effects of forests. Moreover, millions of deforested land can be conserved if reforestation is prioritized. Ecological balance can only be maintained through reforestation as trees not only act as haven for wildlife but also are the source of life under the sea. Simultaneously, redressal of water crisis is directly linked with reforestation. Global air quality, which is deteriorating day by day, can only be improved by reforestation. Moreover, extreme weather patterns, and natural disasters can be averted, with the help of reforestation. Additionally, plantation of new trees is promising strategy to meet sustainable development.

goals and improve economic resilience of indigenous communities. Therefore, reforestation is the ultimate saviour of humanity from existential threat. This essay highlights reforestation, reasons of its urgency and strategies required to materialise reforestation.

To begin with, Reforestation literally refers to regrowth of forests. However, contextually, it is the name of a strategy to plantation of forests on the lands, which have been deforested. The forests from those lands have been cleared for natural or commercial reasons. Natural reasons include wildfires, that engulf a large area of forests. It is evident from wildfires in Chalgouza Forests in 2023, which destroyed Chalgouza trees over large areas of Quetta. Moreover, humans have also cleared forests for their commercial benefits. It can be gleaned from ~~the~~ destruction of forests in Muree for housing schemes. Thus, reforestation is another term for returning the land to the trees, which makes it a global urgency.

Reforestation has become a global urgency to mitigate the

impact of heatwaves. First, forests absorb the excess carbon in the atmosphere, which is the leading cause of heatwaves. It is because of the reason that forests use the ~~absorb~~ carbon for synthesis of food, called photosynthesis.

mitigate
thickened

In this process, trees not only decrease the greenhouse effect, but also release oxygen for the globe.

When trees absorb Carbon Dioxide from the air, greenhouse gases are decreased, which ultimately allows the trapped radiations to escape from the earth. ~~consequently,~~ ~~then,~~ trapped heat is also released.

This fact is evident from the joint communique of Conference of Parties on Climate Change in 2021 (COP 26), which declared the trees as carbon sinks of the globe. In this way, reforestation is the key to relieve the world of heatwaves.

Temperature

shade

Supporting
Sentence-1

→ water
from

→ 31°C
→ 43°C

Secondly, reforestation can mitigate the impact of heatwave through its cooling effect. Reforestation helps to ^{lower} ~~restore~~ ^{rising} the temperature of the earth. Forests create cooling effect by providing shade to the earth ~~from~~ ^{by blocking} radiations of sunlight.

It is evident from the persistent rise of temperature in Lahore after extinction of shade provided by its gardens.

Secondly, forests evaporate water in the atmosphere, which ~~as~~ becomes the source of rain. Resultantly, rain also creates cooling effect on earth. According to International Union for Conservation of Nature (IUCN), regeneration of forests can solve the problem of ~~rain downfall~~ decrease in rainfall, which ~~are~~ ^{is} coupled with the rise of temperature and heatwaves. In this way, conservation of deforested land and new plantation drives can create cooling effects, which can mitigate the impact of heatwaves.

Moreover, ~~the~~ reforestation is crucial for ~~conservation~~ ^{restoration} of deforested land.

→ supporting

It is because of the fact that plantation of trees can restore the forests, which have been cleared.

l
COP-26.

350 million
of
forests
have been
degraded.
This

Moreover, a large area of forests has been converted into a barren land. This reality was highlighted by Bonn Conference 2011, which notified that 350 million hectares of forests have been degraded. In order to restore those hectares, new plantation drives are mandatory. Therefore, reforestation is the only tool to ~~conserve~~ and restore ~~to~~ deforested land.

Additionally, forests act as

Sanctuary for wildlife, which maintains ecological balance. The particular reason behind is the fact that forests act as nests for birds and habitats for wild animals. However, devastation of forests is endangering the lives of these animals. According to World Wildlife Fund Report on extinct species, 2024, 65% of wildlife is endangered in Pakistan. It ensues from little attention to the role of wildlife in maintaining ecological balance and their dependence on forests. Therefore, reforestation holds a critical position for maintainance of wildlife.

Secondly, forests maintain ecological balance by preserving the life under the sea. Sea acts as breeding habitat for a innumerable marine species. However, destruction of forests increase the amount of carbon in the atmosphere, which disturbs the environment of sea. It was highlighted in a petition by small island nations in United Nation Tribunal for Law of seas that carbon accumulation is creating acidification of seas. This acidification kills the marine life, which disturbs ecological balance. In this way, forests are the guardian of marine life, which make

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reforestation a global urgency

Reforestation is crucial to address looming water crisis. The absence of forests removes a source of water vapours from the globe.

water vapour
absence
of
forests
removes
a source
of
water
vapours.

As the
volume
it decreases

TRSA.

✓

The reduction of water vapours results in a significant decrease in rainfall, which further results in water crisis. According to UN Global Water Security Summit 2023 organized by United Nations, there is 80% decline in water capacity of the globe, which can be attributed to incessant destruction of forests.

Therefore, it is urgent to plant new trees in deforested lands to address water crisis.

It is

Moreover, reforestation has become global urgency to improve air quality. The particular reason behind is the gradual increase in the quantity of pollutants in air. The pollutants, such as Nitrous oxide and Sulphur Dioxide, are being released from automobiles and industries coupled with decline in the absorption capacity of Earth. According to World Health Organization, 'Nitrous oxide and sulphur dioxide are five times higher than the safe in air of Lahore than the safe levels. As

forests can absorb these pollutants, they can improve air quality index of the globe. It is the reason that reforestation is the need of the hour for entire globe.

As extreme weather patterns are becoming prominent, reforestation is the only key to averse ^{them} ~~the~~. Reforestation can eliminate the agents that are propelling such patterns. Trees can absorb carbon, which can prevent heat waves and wildfires. Additionally, they can impede the flow of water from rivers, which can minimize the damages of floods. Furthermore, they can decrease the chances of acid rain by absorbing pollutants. All these benefits necessitate new plantation drives to eliminate extreme weather patterns.

Concurrently, reforestation can save the world from natural ^{mangroves} disasters. The particular reason behind is the capacity of forests to eliminate the causative agents of natural disasters. As forests can mitigate the impact of heatwaves, they can prevent the rise of sea level and ^{the} resultant Tsunamis. It is proven from the fact that Mangroves in the Delta of Sindh act as guardian of coastal areas because

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they mitigate the impact of marine flooding. Moreover, forests impede the speed of tornadoes, which des prevent the destruction caused by high-speed winds created by tornadoes. In these ways, reforestation can save the world from natural disasters.

Moreover, reforestation is the key to fulfill sustainable Development Goals (SDGs). It is because of the fact that reforestation can fulfill the dreams of clean, green and inclusive planet. Forests holds the key to the health of humans.

Therefore, Amazon Forests are called lungs of the earth, which guarantee the healthy planet through their carbon absorbing capacity. Moreover, forests can address the issue of climate change. The particular reason behind is the capacity of forests to maintain temperature below 1.5°C of pre-industrial level as it was committed in Paris climate agreement. As all these solutions are part of sustainable development goals, reforestation is urgent to fulfill these goals.

Reforestation is global urgency because it can create economic resilience of indigenous communities.

Impact

into climate change



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The reason behind is the dependence of indigenous communities on forests for earning their livelihoods.

Reforestation can create new job opportunities for these communities.

This include the jobs of forest officers, plant pathologists and veterinary specialists for wild life.

As indigenous communities living of forests are habitual to these tasks, they can protect the forests and earn their livelihoods as well. In these way, reforestation is necessary to improve life standard of indigenous communities.

Meanwhile, reforestation is the saviour of globe from existential threat. It is because of the fact that rapid industrialisation is transforming^{the} planet into barren land. Due to industrialisation and deforestation, desertified land is constantly increasing in proportion, which will create food shortages around the globe. According to the report of ~~Rec~~ "The Recorder", 62M hectares of world has been desertified, which are making billions of people food insecure. Food insecurity will eventually remove human race from the ~~land~~ planet. However, plantation of new forests can reverse the trend by anchoring the soil on its place.

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and maintaining agricultural land.

As reforestation is becoming global urgency, rational effort and prudent strategies are essential to launch new plantation drives. These strategies will be discussed in the remaining part of the essay.

First, green finance is the key to achieve global reforestation. Developed countries have enough capacity and resources to plant new trees, while developing world is deprived of these resources. Therefore, developing world needs finance from the developed world to materialize this objective. In Conference of parties 2024, it was highlighted that developing world needs \$3 trillion for climate efforts, which also includes the amount for new forests. This financial aid will be necessary to achieve equitable reforestation in the world.

Secondly, Research and Development strategy is necessary to implement global reforestation. Different species of plants are adapted to different geographical areas. Without adequate study of by botanists and environmentalists, inappropriate species can be planted

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which will worsen the topography of that area. As a matter of fact, Eucalyptus plant is present in many areas of Pakistan, but it is responsible for decreasing the water level in water table. Therefore, research and development in the field of Geography, Botany and Environmental Science should be executed for proper reforestation.

In this way, Research and Development is necessary for planting new trees.

Thirdly, technological intervention can play a pivotal role in achieving global reforestation. It is because of the fact that technology can be helpful in surveillance of reforestation projects. With the help of emerging technologies, topography and growth of plants can be monitored effectively. As evidence, Bhutan's remote surveillance mechanism can be taken as case study. In this

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mechanism, Artificial intelligence is used in robots, which inspect the nutrition and growth of trees in the Himalayan region. Therefore, new technology is a crucial tool for reforestation in the world.

To sum up all these facts which have been stated so far, it becomes clear that reforestation is a global urgency and strategies are required to materialise it. These strategies include green finance, Research and Development initiatives and technological intervention in reforestation projects. Developed world can unlock billions of rupees for developing countries, which can be invested in Research and Development for new plantation drivers. Moreover, technology is an effective tool to monitor ongoing reforestation projects. In short, reforestation is the guardian of the world from becoming an inferno.