# EVS ASSIGNMENT

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### ASSIGNMENT-1

Déforestation and its Ripple Effects: Case studies from sock and the Amazon.

#### 1 Abstract:

Deforestation is a glubal environment crisis with Severe consequences for biodiversity, dimate and human populations. This paper examines the cause and impacts of defonestation. in two critical regions. Both regions face unique challanger and exhibit distinct pattons of defonestation, yet shave common consequences such ous tradiversity loss, increased carbon emissions and disrupted hydrological cycles. The paper highlights the wrgent need for sustainable land management practises and effective conservation policies to mitigate the clevastriq ripple effects of defonestation in these vital eros ystems.

2. <u>Discussion:</u>

Deforestation, the cleaning of forests for other land uses, is a complex environmental issue with fair Meaching evological, social and economic consequences. The causes and impacts of despressation vary across different

reflecting unique socio-economic conditions, land use. patterns and conservation policies This discussion examines the defonestation in two critical regions - India and the Amazon forest-highlighting the distinct drivers and ripple effects in each scegion while also identifying Commano challenger

# Empacts of deforestation in India:

-) Biodiversity Loss: India is home to a such vaniety of flora and fauna and deforcestation leads to the loss of oritical habitats, thoreatening numerious species with extinction.

-> Climate change: Forest play a vital role in carbon Sequestration and deforestation contributes to increases greenhouse gas emixions, exacerbating climate charge.

-> soil Enssion: The loss of forest cover exposes the soil to errosion, leading to Rand degradation and reduced agricultural productivity.

-> Principled flydrological cycle: Defonestation disrupts rainfall patterns, increases, the risk of floods and drought and reduces ground water change.

Impacts on Livelihoods: Deforestation affects the livelihoods of forest-dependent communities, including tribal populations, who ruly on forests for food, fuel, and other resources.

## Case studies in India:-

The Himalayas: Defoculation in the himalayan region has led to increased soil evoison, landslides, and flash floods, impacting downstream communities.

> Western Ghats: The Western Ghats, a biodiversity hotspot, how suffered significant deforestation due to agricultural expansion and logging, threatening its flora and fauna.

Jentral India: Defonestation in the forest of central India has affected tribal Communities and wildlife. leading to human wild life conflict.

Deforestation in the Amazon Ferest:

-) Cattle Ranching: Cattle Ranching is a major driver of implementation. Amazon, as large arrears of forests are cleaned to meate pastweland for cattle.

- The expansion of coyatean autivation: The expansion of coyatean autivation, primarily for animal feed has also contibuted significantly to defonestation
- I Logging: Both legal and illegar operation extract valuable timber from the amozen, leading to facility degradation and lost-
- > Mining: The extraction of minorals such as gold bauxite, and iron one involves cleaning forests and polluting waterways.
- Infastructure development: The construction of reads dams and other infastructure projects opens up previously inacessible areas of the amazon to deforestation.

# Imparts of deforestation in the Amazon

an unparalleled diversity of plant and animal species and defonestation threatens to drive many of these species

to extinction.

-> chriate harge: The amazon rainforest stories

- of Carbon into the almosphere, contributing to global warning. Defonestation also disrupts regional rainfall patterns, which can have global consequences
- -) Soil enosion and Land degradation: Deforestation leads to soil evosion, land degradation, and reduced soil fertility, affecting agricultural productivity and ecosystem health.
- Disrupted Hydrotogical cycle: The Arnazon plays a critical role in the water cycle and deforestation can disrupt rainfall patterns, leading to droughts and floods in the region and heyond.
- Impacts on Indigenous communities: Deforestation throughouts the livelihoods and cuture of indigenous communities who depend on the forest for their survival.

## Case studies in the Amazon:

- -> Brazil: Brazil accounts for the largest share of amazon deforestation, driver primarily but Cattle rarching soylean cultivation and logging.
  - → Bolivia: Deforestation un Bolivia is driven by aquicultural expansion, particularly for saylean production

#### Conclusion:

Deforestation in India and the Areazon rainforest represents a significant environmental Challenge with profound implications for Biodiversity, climate human wellbeing. While the derivers and patterns of deforestation vary hetween the two regions, both are expeniencing the devarting upple effects of forest loss. In India, the pointary doivors of deforestation include aquialture expansion, unbanizat logging and Mining.

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