

# IAS Mentorship

By Reyasat Ali & Team | 8090528260 Telegram WhatsApp Call

## Section B

Impacts of change in Global Environment : Challenges and Solutions

The global environment is constantly changing due to various factors like climate change, pollution, deforestation and other human activities. These changes have far reaching impacts on ecosystems, human health and economies. In this essay, we will discuss the impact of changes in global environment, the challenges posed by these changes, and potential solutions to address them.

The impact of changes

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in global environment in widespread and varied. Climate change for example, is causing sea level to rise temperature to increase and weather patterns to become more unpredictable. This has severe consequences for biodiversity, food security and human health.

The warming of oceans for example is leading to bleaching of coral reefs, which has significant implication for marine ecosystems and fishing industry. Additionally, extreme ~~state~~ weather events such as floods, droughts, and hurricanes are becoming more frequent, leading

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to displacement of people and damage to infrastructure.

Pollution is another major environmental challenge that has far reaching impacts. Air pollution, for example, has been linked to respiratory diseases such as asthma, lung cancer and heart disease. Water pollution on the other hand is affecting aquatic ecosystems, contaminating food supplies, and causing water borne diseases.

Soil pollution is also a concern, as it can lead to soil degradation and loss of agricultural

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Productivity.

Deforestation is another significant environmental challenge that has severe implications for biodiversity, carbon storage and local communities. The loss of forest leads to reduction in carbon sequestration, which contribute to climate change.

Additionally, deforestation leads to loss of habitat for countless species, which can cause a ripple effect throughout ecosystems. Forest also play a critical role in maintaining

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Watersheds, and their loss can lead to soil erosion, water scarcity, and environmental problems.

The challenges posed by these environmental changes are numerous and complex. Climate change for example is a global problem that requires coordinated action at the international level. Reducing greenhouse gas emissions and transitioning to renewable energy sources are critical steps that need to be taken. However implementing such measures requires

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significant political will and resources and may face resistance from vested interests.

Similarly, addressing pollution requires concerted efforts at the national, regional and local levels. Regulations and policies that limit emissions and ensure that polluters pay for the damages they cause are necessary. Additionally promoting sustainable practices such as reducing waste and adopting cleaner production methods can help reduce

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Pollution

Deforestation too requires multifaceted solutions that address the root causes of the problem. Protecting forests through ~~the~~ legal frameworks and promoting sustainable forestry practices can help reduce the loss of forests. The urban forestation concept of Pune in 'Waste' could be the way forward. Additionally promoting agroforestry, which involves planting trees alongside

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Coops can help increase agricultural productivity while preserving forests.

These are also numerous potential solutions to address the challenges posed by changes in global environment. For example, technology can play a significant role in reducing emissions and improving resource efficiency. Advances in renewable energy, electric vehicles, and energy storage can help reduce greenhouse gas emissions and promote sustainable development. Additionally,



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Emerging technologies such as carbon capture and storage, and geoengineering may have a role to play in mitigating the impact of climate change.

Education and awareness raising are also crucial in promoting sustainable practices and changing behaviour. Encouraging individuals and communities to adopt more sustainable practices such as reducing waste, using public transport, and adopting energy-efficient appliances.

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Can have a significant impact. Additionally, education can help build awareness about the importance of biodiversity and ecosystem services and need to protect them

finally international cooperation and partnerships are crucial in addressing environmental challenges. Solutions to these problems require coordination and collaboration at the global level. For example, UNFCCC (United Nations Framework Convention on Climate Change) brings together countries to negotiate

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and implement agreements to address climate change.

Additionally, multilateral organisations such as WB, UNFCCC, UNCCD, etc. need to come together, collaborate and fight back global environmental changes.

Samudra - Vasane Devi, Pasvate stana  
mandite ||

Vishnu Patni Namastubhyam, Pada - spasham  
Kshamasva me ||

O Ocean draped, O adorned with mountains,  
O consort of Vishnu, forgive me for  
stepping on you.