

Discuss the reasons of environmental degradation in Pakistan and suggest remedial measures for sustainable environmental rehabilitation.

CA-25

1. Introduction

Pakistan is one of the most affected countries from environmental changes and degradation. The major reasons of environmental degradation are population explosion, rapid urbanization, excessive deforestation, combustion of ~~burn~~ fossil fuel, inadequate and outdated techniques of solid waste management and rapid industrialization and use of weapons of mass destruction also contribute to the environmental degradation. Its remedial measures include, sustainable, carbon development, compliance of Sustainable Development Goals (SDGs) and in every practice that protect environment.

2. Reasons of Environmental Degradation in Pakistan

A. Population Explosion

Pakistan is one of the most populated country. And population is still being increased at the exponential rate. The increasing numbers of population ~~degrade~~ degrade environment by exploiting the natural

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setting of an entitlement.

"
At the end of 2000, world had 6m population, till 2024, population was 8m and it is expected to increase by 9m at the end of this century."

US Population Census 2024

B. Excessive Deforestation

In order to fulfil the growing demand of population, state has to ~~be~~ facilitate the population by cutting down the trees to accommodate the population ~~there~~. However, more than deforestation is done illegal and unregulated by the government.

Pakistan has 5% of forest cover
Area."

Global Forest Watchdog 2023

C. Rapid Urbanization

More number of people from remote areas are moving towards developed cities like Lahore and Karachi for better opportunities and education. As, people do not have sufficient opportunities at their cities. Due to which the pressure

of urbanization is increased.

"More than 56% of population was urbanized in Pakistan in 2023 only."

United Nations Development Program Report 2024.

D. Frequent use and reliance on hydrocarbons

Pakistan is a country, where hydrocarbons are still being used at the rising rate. Because it is cost effectively available and switching to renewable energy source is very expensive for the government as well as individuals. Moreover, government has taxed the renewable source of energy such as solar panel.

"Pakistan merely gets 5% of ^{renewable} energy."

~~from~~ Pakistan Energy Council Report 2023

E. Outdated techniques for solid waste management

70% of population lives in the developing or under developed section in the Pakistan, where solid waste is still not managed properly. It is managed by the local through open dumping. Due to

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many gases such as carbon dioxide and nitrogen peroxide and pollute the air and degrade the environment.

Pakistan has potential to produce 5% of energy from organic waste.

Tribune

F. Rapid Industrialization

Due to China-Pakistan Economic Corridor, the process of industrialization is accelerated in Pakistan. Due to which industry produces harmful gases and also degrades the environment of Pakistan. These industries need large land areas to operate. Pakistan being a relatively less expansive country. Companies are shifting in Pakistan from China. Such as OPPO.

Example:- Saindak Mining and Recondite mining degrades environment

G. Excessive use of weapons due to national security and war hysteria created by neighbouring countries.

Excessive use of weapons also

rephrase and connect it to the topic directly

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degrade the environment. Such as war-like conditions created by India after every 2-3 years. And presence of Taliban in Afghanistan soil. Provide existence threat to Pakistan by targeting Pakistan civilian and paramilitary personnel. These regions produce dangerous gases that affect the environment.

"More than 230+ military operations against Taliban Terrorist in KPK Province in 2024 alone."

DG ISPR 2025

3. Remedial Measures for Sustainable Environmental Rehabilitation.

A. Developing Sustainable Urbanization process

Pakistan need to create sections that are sustainable and equipped with all environmental needed residence. Such as China Sponge cities in which rain and flood water is used for future & future home domestic use. Initiatives like these must be encourage by govt while creating a new projects.

unclear

Example: China's sponge city in Shanghai

B. Implementing reforestation policies

NGOs and individuals must be encouraged for tree drives, and the government should provide facilities, and funds and equipment to the NGOs to ensure smooth process of reforestation and afforestation. Moreover, government also need to create national parks so that deforestation can be illegal in these areas.

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100,000 plantation drive by Edhi foundation in 2021 in Karachi City."

- Edhi Foundation 2022.

C. Effective Solid Waste Management Approaches.

Waste should not be thrown in open dumping. State local government needs to have effective and trained staff to collect the waste and there should be adequate number of transportation vehicle to carry out the collection process. Moreover, recycle waste must be segregated and remaining waste must be decomposed through incineration process, landfill and composting in those areas where there is no population.

D. Educating people over increasing population issues

Educational institution must be utilized to educate people especially those who are married to produce less number of children due to scarcity of resources and other population-related issues. Seminars and workshops must be given to them so that population is controlled.

Example: China's one child policy

E. Encouraging renewable energy sources

By this way, use of fossil fuels will be decreased and less environmental degradation occurs. Like less air pollution, smog and fog in the city will happen if there is excessive use of renewable energy. People should be encouraged to purchase Electric Vehicle instead of petrol and diesel cars.

F. Adopting sustainable industrial process

Industries must be forced to adopt green technology that produce less carbon emission. A robust mechanism and regulatory body must be created to keep checks and balances and pay

suggestions are vague and generic. add specific recommendations and given examples/case studies of other countries

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announced with the industrial operations to ensure whether environmentally friendly practices are followed or not.

G. Effectively Implementing Sustainable Development Goals.

Pakistan need to follow the steps of Sustainable Development Goals as prescribed by the United Nations. So that less harm is contributed in the environment. Compliance with SDGs must be mandatory in every business and human activity.

H. Seeking International Cooperation

By availing technical resources from friendly countries, Pakistan can control and mitigate its environment related issues.

4. Conclusion

To cap it up, Pakistan is most affected country due to climate change and global warming etc. the environmental degradation patterns activities done within Pakistan. Pakistan can effectively control them issue if there is a desire to protect the nation from more environmental-related calamities. Timely action can save Pakistan from Holocaust.