



Environmental Degradation: It's Root Cause, Effects and Suggested Remedies

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ABSTRACT

Environmental degradation is an urgent and serious issue to be noticed on the planet. The main reasons behind the problem are humans and their greed which lead to excess utilization of all the natural resources. Environment degradation is the combination of two words- Environment which means the surroundings where we exist and degradation refers to the exploitation of natural resources. All these activities have a direct impact on the biotic and abiotic factors to be declined constantly. Environmental issues are the major happening of the incidents caused by humans. The major factor responsible for environmental degradation is human activities which comprises urbanization, industrialization, overpopulation, and natural activities like earthquakes, drought, and landslides. This paper provides a detailed and comprehensive review of the literature on research and findings on the studies related to causes, effects, and solutions for reduced environmental risk.

Keywords: Environment degradation; industrialization; pollution and climate; deterioration, depletion; biotic.

I. INTRODUCTION

The term environment generally refers to the surrounding where we exist. The term is known and understood by all but the awareness related to this topic is very less. Without environment survival is not possible. It is a very serious and urgent problem to be solved and noticed immediately. It include problems such as pollution, population, biodiversity loss, and animal extinction, deforestation and desertification, global warming which further leads in causing ecological imbalance in nature. The increasing rate of environmental degradation causes severe impact on the life of humans. The toxic gases and pollutants are inhaled by humans which causes various health related problems to human. (longdom.org)

CAUSES:

Below are some of the causes which are responsible for causing environmental degradation which is as a result of various social, ecological, political and various environmental forces and factors.

- 1. Over Population:** Population is important factor which causes ecological balance in the environment by excess consumption and utilization of natural resources.
- 2. Increasing rate of Poverty:** Overpopulation leads to unemployment which causes poverty in the world. There is lack of basic necessities. All this is the result of increasing environmental degradation.
- 3. Increase in the rate of Urbanization:** People are shifting from rural areas to urban an area which causes immense pressure on urban areas which further leads to environmental degradation.

4. **Development of economy:** The uses of various technologies for development of economy have a serious effect on the environment. Technological development causes harm to the environment.
5. **Agricultural Loss:** Development in agriculture causes usage of chemical insecticides and pesticides which leads to reducing the quality of soil.
6. **Emission from vehicles:** Various toxic gases and pollutants severely affect nature by the emission of gases from vehicles. People are using more private vehicles than public vehicles.
7. **Pharmacy industry:** The increase in usage of plastic in packaging of medicine and bottles has led to increasing pollution.
8. **Fashion industry:** Chemicals from decomposing clothing can leach into the air and into the ground. Various synthetic materials are used in manufacturing clothes which lead to increased environmental degradation.

II. LITERATURE REVIEW

Environmental Degradation is a pressing and alarming issue to be discussed in this section of research paper. Studies relevant to our research were identified through a search of Web of Science, Science Direct, Scopus and Google Scholar. It poses a significant threat to the ecosystem, human health and economy of the world. Various sources highlight the major and alarming effects of environmental degradation.

RESEARCH PAPERS	AUTHOR'S NAME	PAPER INSIGHT
Introduction to environmental degradation: Causes, consequences and mitigation	Pradip Kumar Maurya, SK Ajim Ali, Anwar Ahmad	This paper concludes about the various causes and effects of environmental degradation. Various causes like overpopulation, pollution, industrialization has been identified. The changes in policy making should be made and identified related to environmental degradation.
Climate change, environmental degradation and migration	Koko Warner, Mohamed Hamza, Anthony Oliver Smith	This paper concludes about the impact of climatic change on environmental degradation. It focuses on ecological environment and migration related problems.
Environmental Degradation and population flows	Astri Suhrkre	This paper concludes about the impact of increasing and overpopulation on environment. It emphasizes on increasing population as a root cause of environment.
Environmental degradation: Causes and consequences	Swati Tyagi, Neelam Garg, Rajan Paudel	This paper concludes on the national and global causes and particularly focusing on

		various kinds of pollution and related risk associated with environment.
Economic Growth and environment degradation in a global context	Aler Kahuthu	This paper concludes about the relationship between the environment and economy. It particularly emphasis on carbon emission and deforestation.
Economic growth, energy consumption and environmental degradation nexus in heterogeneous countries: does education matter?	Busayo Victor Osuntuyi& Hooi Hooi Lean	This paper concludes about the geographical space of Earth in context with the environment. These study identify education to be considered essential for the preservance of nature.
Role of environment degradation, Institutional Quality, and Government Health Expenditure for Human Health : Evidence from emerging seven countries	Jiping Wei, Syed Rahim, Shizhen Wang	This paper concludes about the various indicators like economic, non-economic and health indicators which plays an important role in preserving nature for future generation.
Agricultural pollution: environmental problems and practical solutions	Graham Merrington, Linton Winder Nfa, Roberr Parkinson, Mark Redman, L Winder	This paper concludes about the problems related to environmental agricultural problems which is a root cause of environmental degradation.
Environmental Degradation, Sustainable development and Human well being	Barun Kumar Thakur, Himanshu Sekhar Rout	This paper concludes about the key role and emphasis made on sustainable environment and the effect of nature and environment on the life and health of human beings.

III. METHODOLOGY

We have researched and read almost 30 research papers. The best of the papers are used for guidance to form methodology. Environmental degradation is a alarming issue that requires a systematic and appropriate approach for effective restoration of environment. A systematic methodology is necessary to understand the potential solutions to this problem. All the methods are researched and written from Wikipedia.

We have separately specified the different methods used in various segments for protecting Environment. Here we have provided a brief of some of the possible methods.

1. **Controlling the rate of pollution:** Pollution can be effectively controlled by refuse disposal system which includes sanitary landfills, emission control system for sedimentation tanks in sewerage system etc.
2. **Population control:** It is an effective method for reducing environmental degradation. By controlling population, resources will not be excessively used by humans.
3. **Treatment of Pharmaceutical waste:** This can be done by substituting plastic used in packaging to aluminium which is highly, importantly and endlessly recyclable. This statement is given by Robert Bulla, director of engineering and innovation at APC packaging.
4. **Green Tech agriculture:** Technology for agricultural advancement should be made in such a way in which agriculture will yield a better output without harming nature.

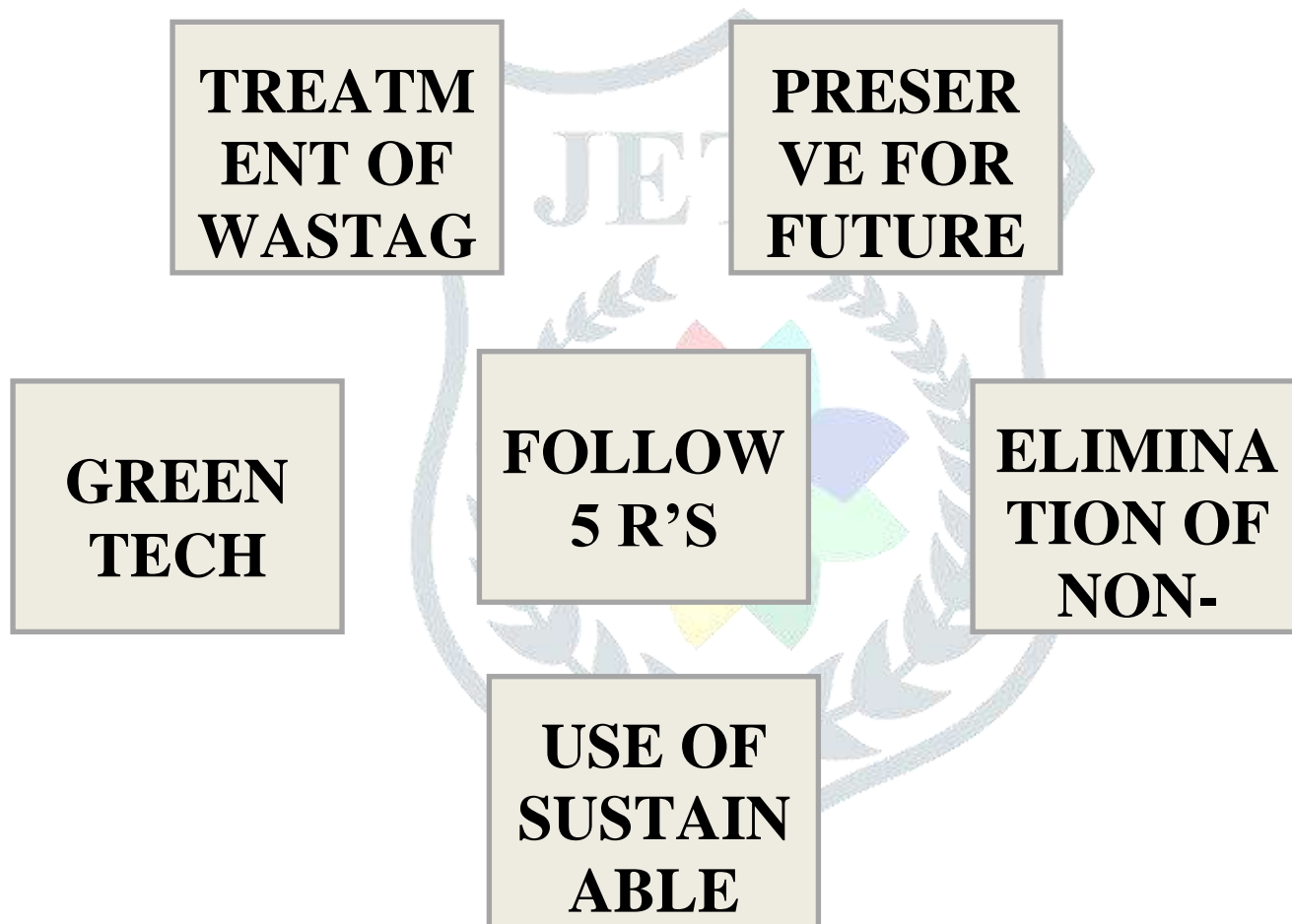


Figure1: 5 Rules to save our environment

IV. RESULT AND ANALYSIS

To summarize, the following factors were found to be prominent in the environment degradation. All the above methodology described are already been implemented but the process and rate of implementation among the citizens is very negligible. A proper and systematic implementation using comprehensive planning and policies will help in protecting environment. By analyzing all the above methodology, we came to common solution of adopting and developing green technology which will lead to development of world without causing any harm to the environment. Various methods are already been adopted in green technology but more advancement is required in this particular aspect for preserving nature from a great threat.

V. CONCLUSION AND FUTURE WORK

In conclusion, the project on environmental degradation has highlighted the need to protect and address environmental issues. The environment plays the most significant role in the preservation and survival of every life form on the face of Earth. Healthy environment plays an important role in making ecological and systematic balance. Furthermore, environmental degradation is primarily caused by human activities such as pollution, wastage of resources etc. Depletion and deterioration in environment will cause serious problems in regard with all the aspects. Environment need to be protected and saved at all costs. Hence it is very important to discuss and solve all the problems related to environmental degradation.

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