



REVIEW OF RESEARCH

ISSN: 2249-894X

IMPACT FACTOR : 5.7631(UIF)

UGC APPROVED JOURNAL NO. 48514

VOLUME - 8 | ISSUE - 9 | JUNE - 2019



“ ECOLOGY AND VARIOUS EFFECTS OF ECOSYSTEM CHANGES ”

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ABSTRACT:

In the present research paper, explained the concept & importance of ecology. The study of various effects of ecosystem changes. what is the effects of ecosystem changes on human being .Importance of ecology in our Life is very much.

KEYWORDS: Ecology , importance of ecology, various effects of ecosystem changes, Biotic & Abiotic factors, Environment , Biosphere, population etc.



INTRODUCTION

“ Ecology is the study of the relationship between Living organisms and their environment. Ecology is the study of the relationship between plants, animals, people and their environment and the balances between these relationships.

The Study of various levels such as organism, population, community, biosphere and ecosystem.

The main aim of ecology is to understand the distribution of biotic & abiotic factors of Living things in the invironment. Biotic factors are living factors of an ecosystem. Bacteria, animals, birds, fungi., plants these are the few examples of biotic factors.

Abiotic factors are non living chemical and physical factors of an ecosystem. These factors could

be acquired from the atmosphere, Lithosphere and hydrosphere.

Abiotic factors include sunlight , Soil , air, moisture, minerals and more . These are the few examples of abiotic factors.

OBJECTIVES :

Objectives of this paper is as given below.

1. Do the study of ecology.
2. To explain the importance of ecology.
3. To explain the various effects of ecosystem changes.

For the study to ecology & various effects of ecosystem changes , use the secondary sources i.e. book and web links etc.

Ecology is the important for human Life . Due to ecosystem, human life would be good or

bad .The approach of ecosystem is made the human life better or bad.

But current economic system is not good for feature of human life . Because the current economic system is depends on profits motive. So thoughts about use of natural resources is maximize the use of resources.

Therefore impacts on ecosystem was very bad. Gandhian economic system is different than current economic system . The Gandhian economic system's philosophy is spiritual and environment friendly.The motive of Gandhian economic system is profit and well being.

In this paper, I try to explain the ecology and various effects of ecosystem changes or human life . As per the various studies of the ecology is cleared the ecology is the study of biotic & abiotic factors. The main aim of ecology

is to understand the distribution of biotic and abiotic factors of living things in the environment. Ecology can be classified into different types. Different types of ecology are as given below.

1. Global Economy - It is the study of interactions among Earth's ecosystems, atmosphere, land and Oceans. It helps in understanding the large- scale interactions and their influence on the planet.
2. Landscape Ecology - It is the study of the exchange of energy, organisms, materials and other products of ecosystems. Landscape ecology throws light on the role of human impacts on the landscape structures and functions.
3. Ecosystem Ecology - It is the study of the entire ecosystem which includes the study of living and non-living components and their relationship with the environment. The science research how ecosystems work, their interactions etc.
4. Community Ecology - It is the study of how community structure is changed by interactions among Living organisms. Ecology community is made up to two or more populations of different species Living in a particular geographic area.
5. population Ecology - It is the study of factors that change and impact the size and genetic composition of the population of organisms. Ecologists are interested in fluctuations in the size of a population, and any other interactions with the population.
6. organismal Ecology - organismal ecology is the study of an individual organism's behaviour, morphology, physiology etc. in response to environmental challenges. It looks at how individual organisms interact with biotic and abiotic components. Ecologists research how organisms are adapted to these non Living and Living components to their surroundings.” 2

These are the various types of ecology.

VARIOUS EFFECTS OF ECOSYSTEM CHANGES :

Due to the ecosystem changes, effects on Human healths, environmental changes, human well being etc.

1. Health effects of ecosystem changes - While human health.. improves under most scenarios, under one plausible future health and social conditions in the north and south could diverge. In the more promising scenarios related to health, the number of undernourished children is reduced, the burden of epidemic diseases such as HIV/AIDS, malaria and tuberculosis would be lowered, improved vaccine development and distribution could allow populations to cope comparatively well with the next influenza pandemic and the impact of other new diseases such as SARS would also be Limited by well coordinated public health measures.3

As per above effects on health of ecosystem changes is very bad.

Human activity is transforming Earth's natural systems in ways that are profound, pervasive and accelerating . This transformation is generating a suite of health impacts that remain, in many instances, poorly characterized.

However, ample evidence exists that nearly every dimension of human health is being affected and it is Likely that the disease burden associated with these aggregate ecosystem alterations is large and growing.4

Above analysis is explained the human health's effects of ecosystem changes.

2. ENVIRONMENTAL ISSUES -

Environmental issues are the harmful effects of human activities on the environment, waste disposal, climate change, global warming, greenhouse effects etc.

Climate change is a great concern in today's scenario. This problem has surfaced in the last few decades. Greenhouse gases are the major cause of climate change.

These are the various effects of ecosystem changes. Due to these effects, human well being is disturbed. so ecosystem changes is very harmful for human being.

Impact of global warming on agriculture sector is very worst. That the over 70% of Indians depend on land for their Living, the rise in temperature would be apocalyptic for us.5
Due to global warming declined the rate of production of agriculture in India.

Coastal ecosystems are affected by multiple direct drivers, worldwide, nearly 40% of people live on the thin fringe of land within 50 km of the ocean. Fishing pressures in those systems are linked to a wide array of other drivers including river and ocean based pollution, habitat loss, etc. 6

These are the losses due to the coastal ecosystems.

John Maynard Keynes, the most influential economist of the last century, too had warned about the consequences of overuse of resources. He said, “ The day is not far off when the economic problem will take the back seat where it belongs and the arena of the heart and the head will be occupied or reoccupied, by our real problems - the problems of life and of human relations of creation and behaviour and religion. ” [Ref. Gurudas Nulkar. “ Ecology, Equity and the Economy,” (p.91) Ecological Society, Pune.]

As per above analysis of Keynes, the over use of resources is very bad impact for human life.

In Bhutan economic growth is largely stable and the main drivers of the economic growth are Renewable Natural Resources (RNR.)

The population census conducted in 2005 reported the Bhutan’s population of 634982 with a growth rate of 1.3 %. Urban population is rapidly increasing as a product of development with all the features representative of a growing economy. 8

[Ref. “ A situation Analysis of Ecosystem services and poverty linkages in Bangladesh.”]

by Moushumi Chaudhury, senior research fellow, Environment unit, Research and Evaluation Division P-29]

Above effects due to the use of Renewable Natural Resources, hydropower and tourism.

As per above study, one thing is very clear, that is the study of Ecology is very important for human life. The study of effects of ecosystem changes is also important for human being.

The very worst effects of ecosystem changes on human health, agriculture production and human being.

CONCLUSION :

In this paper one thing is clear, the study of ecology is very important for human being. Then the impacts of ecosystem changes is very worst on human life, and agriculture sector. It means agriculture production is decreased & also quality of agriculture production is decreased. And its impact on health of the human. Balance of nature has been in risk. So now need to control our human style and population. Need of the awareness in society about the ecology or environment. As per my knowledge, the rich people & the government is more responsible for the above effect. Because consumption rate of food, water etc. is very high in rich people. Therefore, we need to control the wastes of food, water etc. Cleanliness is very important for good health.

All above things are very important for save the earth & ecology.

If we saved the Earth & ecology, then we will save our future life & future of generation.

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