

## Essay Competition on 'Conservation of Biodiversity Elements and Their Sustainable Uses'

School Name: DUMDUM KISHORE BHARATI HIGH SCHOOL

Student Name: RO UNAK ROY

Class: VIII

### Conservation of Biodiversity Elements and Their Sustainable uses

Introduction:- Environment is defined as the surroundings in which the organism lives. This may be physical environment, chemical environment or biological environment. Environment has two components - abiotic and biotic. Abiotic environment includes air (atmosphere), water (hydrosphere) and land (lithosphere). Biotic environment includes plants, animals and microbes.

Biodiversity:- Biodiversity is the existence of wide variety of plants and animals species living in their natural environment. Biodiversity means variability among living organisms of all sources including "Inter Alia, Terrestrial, Marine and other aquatic ecosystem, ecological complexes of which they are a part included diversity, within species, between species and of the ecosystems.



Ways of Conserving Biodiversity :- ~~Conservation~~ Conservation means saving and protecting environmental objects and elements.

In the final analysis, the very survival of human race is dependent on conservation of biodiversity. The 'Earth Summit' produced a plan of action on the number of issue including conservation of Biodiversity elements.

- a) Conservation of Biodiversity leads to conservation of essential ecological diversity to preserve the continuity of food chains.
- b) The genetic diversity of plants and animals is preserved.
- c) It ensures the sustainable utilization of life support systems on earth.
- d) It provides vast knowledge of potential use to the community.
- e) A reservoir of plants and animals is preserved, enabling them to be introduced, if need be, in the surrounding areas.
- f) It assures the sustainable utilization of potential resources.

Modes of Conservation :- a) Ex situ conservation :- Conservation of bio-diversity outside the areas where they naturally occur is known as Ex-situ conservation. Here animals are reared and plants are cultivated like zoological parks and botanical gardens. Reintroduction of an animals or plants into the habitats from where it has become extinct. For example, the Gangetic Gharials has been reintroduced to from the rivers of

Uttarpradesh, Madhya Pradesh and Rajasthan where it had become extinct. Seed banks, Recreational gardens, botanical horticultural are important centers for Ex-situ Conservation.

b) In-situ Conservation:- Conservation of biodiversity into the natural habitats are:-

- i) Biosphere reserve
- ii) Sanctuary
- iii) Protected forest
- iv) Reserved forest
- v) Reserved and protected forest
- vi) Preservation plots

Uses of Biodiversity elements:- i) Maintaining the balance of ecosystem.

Recycling the storage nutrients, combating pollution, stabilizing climate, protecting water resources, farming and protecting soil, maintaining the ~~eco~~ balance.

ii) Provision of biological resources. Provision of medicines, pharmaceutical food for human population and animals, ornamental plants, breeding stock and diversity of genes, species and ecosystem.

iii) Biodiversity and food:- 80% of human food supply comes from 20 species of plants, but humans use 40000 species for food, clothing and shelter.

iv) Biodiversity and human health: The shortage of drinking water is expected to create a major global crisis. Biodiversity also plays an important role in drug discovery and Medicinal resources. The Biodiversity gives us 80% medicines.

v) Biodiversity and industry :- Biodiversity provides many industrial materials. It provides rubber, food, paper, timber, oil, water etc.

vi) Biodiversity and recreational activity :- Biodiversity inspires human for many recreational activity like bird watching, fishing, trekking etc.

Conclusion :- So, <sup>it</sup> is important to conserve Biodiversity being a part of ecosystem, that provides our needs. Conservation of five elements ~~like~~ air, water, fire, land, space has an intrinsic value to the existence of mankind. To secure future of mankind and environmental awareness to be emphasised. Man is most intelligent animal in the earth. So man take initiative for their children for fresh air, good quality of water, food and medicine. Here a famous Sanskrit quotation is mentioned "Prakriti Rakshati Rakshita". Nature protects if she is protected. So we have to Conserve our useful "Biodiversity elements".