# Chapter 4 Biodiversity of its conservation



\* Biodiversity of types Refer unit test - 2 notes p.g.n 8

### \* Hot spots of biodiversity

In biodiversity there are two major concepts of megadiversity 1 biodiversity hot spots? Megadiversity concept covers the broad frame at biodiversity concept which emphasizes more on speck michness, threatened species & endemic species.

Megadiversity phenomenon of at least 110% of all being confined to 17 megadivensity countries in the tropics The Hot spots, originally 18 & now 25 in number, provided means of fouring on those areas where threats to biodiverse are most extreme a conservation efforts are urgently needs Two hotpots are in India, in one the Western Chats or Sallyadri & other being the north eastern Himalayas.

This indicates the global importance of the biodiversity in our country Initially only high plant species were considered for identifying the hotspots but later not only the higher plants but also the birds, mammals, reptiles amphibians.

## \* Conservation of biodiversity

There are different views of priorities about consen of biodiversity. There are immediate causes as well as ultimate causes of biodiversity destruction. The immediate causes being over exploitation, habitat degradation of d petruction

The causes include !

- Inequities in the distribution of power
- Information & resources
- Effects of global market forces & market failures
- That miss value natural resources

- Separation of environmental conservation of economic development.

- Decline of the indigenous systems of resource management. - Unsustainable levels of resource demand at global level.

- Lack of ethical commitment to sustainability.

- Inequities within a between societies of countries.

The biodiversity normally conserved in two ways of in-situ conservation of ex-situ conservation.

Both the methods have own merits of limitations in the present situation.

### @ In-situ conservation

There is conservation of florad fauna, particularly wild in their natural habitats. These corcepts of conservation have been practiced by the local communities for centuries. The present wildlife management practice of 'Protected Areas' for wildlife Conservation has been implemented in the country. The country today has 520 National parts, wildlife sanctuaries, project tiger area.

National Parts are granted high degree of protection of no human interference is allowed in the protected area.

Biosphere reserve is another concept of In-situe conservation.

Industrice of environment damaging commercial, developments.

Projects would not be allowed.

Project Tiger is another concept to conserve in-situ the entire food chain of tiger.

### @ Ex-sthu conservation

tion

The exists conservation of plants of animals is being carried out as a last alternative to in-situ conservation. The collection of preservation of genetic material of wild varieties of crops, domestic animals, economic of medicial species.

0000000 The idea of ex-situ conservation is to protect the germ plasm \* Critical issues in the implementation of biodiversity conservation - transforming attitudes of practices of people concernice biodiversity - building a regional of global alliance to conserve biodiversity as biodiversity does not have man made boundaries. - empowering local communities to conserve biodiversity of use it sustainability. - Integrating conservation of biodiversity with economic development at national, regional of local level - reducing 4 stabilising human impact on biodiversity. whenever possible - Biological necourror including genetic recourrer, organism or part of organisms, populations or any other brotic component of any ecosystem. - Those resources I the diversity of the systems which support them, are therefore the essential foundation of sustainable development. - The human activities are greatly reducing the planet's biodi versity. - Little data is available to access which genes or species and particularly important in the functioning of ecosystems - The loss of wild species 4 habital receives most public attention, The agriculture will have a far narrow genetic base, & many fewer varieties of Bruts & vegetables will reach the market

00000 & Sustainable goals for Biodiversity Only sustainable future for our planet, where loss than sustainable use of biological resources will lead inevitably to a decline in productivity of quality of life. Flements in this sustainable future include. - A well informed public, aware of the status of brends of the ecosysteme of their own country. - A system of legislation, economic incentives & supporting regulations which encourage people to we biological resources oustainably of promote the consorvation of brodiversity - A collective relationship bet governments, scientists, local communities of the private sector which supports the process of conserving biodiversity. - A well-managed system of protected areas established in each country, including representative ecosystems of the widost possible range of country's biodiversity A comprehensive data have on soils climate, topography geology of biodiversity to monitor status of hends of gener, apecies of ecosystems to predict the impact of future changes. and determine uption with developing and refined when the state of market he are the property may become the at blusses small the designation distance and applications rectioned the two sections and of the property of the state of the stat