

Date: - 08/11/2024

Ques. What is Biodiversity? What are the levels of biodiversity? [250W]

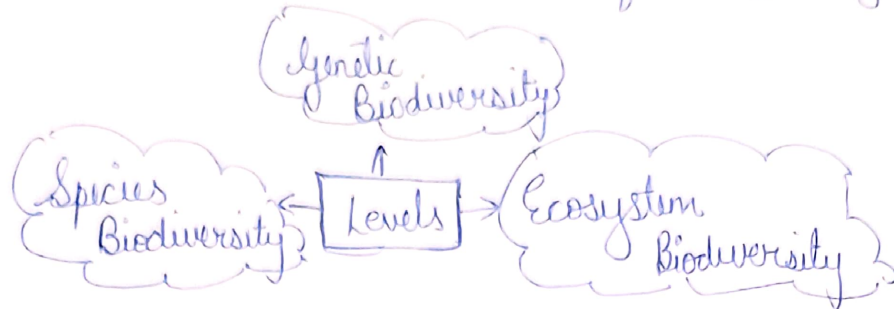
Ans. Biodiversity is the variety of life forms found on the earth or the variation of life forms on the biome or biosphere.

Biodiversity shows the health of the ecosystem. Greater the Biodiversity, greater is the health.

Initially, the term was referred as biological diversity which was given by Raymond Damann. The term was shortened and known as 'biodiversity' which was given by Rosen.

The biodiversity rich is found in terrestrial land as it is suitable for altitude, and longitude and latitude.

There are three levels of biodiversity:-



→ Species Biodiversity :- It is the total count of the species. It has two components:-

- ① Species Richness . ② Species Evenness . ✓

The species can be counted by:-

Alpha , Beta , Gamma

→ Ecosystem Biodiversity :- It includes all the living and non-living things but the counting is done of living things.

It has 3 components :-

- ① Habitat Diversity ② Species Diversity
③ Genetic Diversity .

→ Genetic Biodiversity :- A gene is the segment of DNA which is transferred from parent to offspring . ✓

- It also describes the characteristics of species such as color, white, black, Hair/Eye colour.

In a nutshell, Biodiversity is the variety of life & shows the richness of species needs to be protected and is protected under Convention of Biological Diversity. As it shows the measure of health of ecosystem so to keep it safe and secure is the great concern.

31/