

Geography Notes

Week 2

Environmental change and management

Learnt:

Examples of environmental change and management: deforestation, temperature changes - climate change, natural disasters - cyclones/tsunamis, degradation of abiotic and biotic factors, pollution, erosion, conservation of heritage sites, human impacts, urbanisation and development, man made structures eg. dams, introduction of foreign species, planting trees, hazard reduction burns, back burning, eco -friendly building, garbage trucks, recycling system, by 2050, net zero emissions.

Week 3

Functions of the environment, biodiversity,

Learnt:

An ecosystem (ecological system) is a complex community made up of living organisms that interact with each other and with their environment.

They provide humans with a range of important resources, processes and benefits known as ecosystem functions

These functions are known as the 4 S's, Source, Sink, Service and Spiritual

- **Source function** - the environment's provision of natural resources, eg, animal life, forests and plant life, air, water, wind, minerals
- **Sink Function** - the environment's ability to absorb, break down, and recycle wastes and pollution, eg. Photosynthesis, decomposition/ biodegradability, absorbing of carbon dioxide (co2)
- **Service Function** - the environments provision of balance and stability through the atmosphere of biodiversity, ecological integrity and the climate(without the interference of humans), eg. absorption of carbon and the provision of oxygen by forest, filtering water, providing shade
- **Spiritual function** - the cultural, recreational or psychological value of the environment for people, a personal connection with the environment

Biodiversity refers to the variety of organisms such as animals, plants and microorganisms; and the ecosystems, landscapes and environments that they form

- Biodiversity can increase the productivity of an ecosystem as each species no matter how small, has an important and distinct role.
- The three aspects of biodiversity are ecosystem, species and genetic
- Taking away one important component can destroy the aspects of biodiversity, human impact, climate change, disease, fall of vital systemf

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**Kevin R. Carter, Charlotte Fletcher-
Gipps**



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