Cheatography

CONCEPT OF ECOSYSTEM

+basic structural and functional unit of the environment

- ♦without exchange b/w the living and non-living component of the nature, an ecosystem is not possible
- ◆The study of ecosystem includes analysis, regulation and function of every component in the ecosystem

✦All to simply understand the equilibrium of the environment

Both the living and non-living component of nature, when interact with each other to establish a stable living community, it is called an Ecosystem.

STRUCTURE OF ECOSYSTEM		Climatic Factors-1.Light		Climatic Factors-3.Water	
		Essential for all living orgs. In presence of the sunlight plants		✦Life is never possible without water	
PRODUCERS CONSUMERS DECOMPOSERS	LIGHT	material, which in turn eaten by material, which in turn eaten by material, which in turn eaten by material by the decomposers.		 ◆animals and plants need water ◆Water regulates the body temperature of both plants and animals 	
Fig.1.Schema		Importance for Plants	Importance for Animals	✦amount of water present in an area decides the type of	
Schematic Representation of Structure of an Ecosystem		Chlor-ControlsMetabolism byproductionaffecting		ecosystem to be developed there	
BIOTIC COM		◆Distr-	enzyme activity	✦amount of rainfall also decides the kind of plants to grow over	
UCERS green plats. w make their ow food by using CO2+water+s nlight with the of chlorophyll 2.CONSheterotrophs. UMERS types: Primary Consumers, Secondary Consumers, Tertiary Consumers.	-autotrophs. all green plats. who	ibution of plants		 ♦ amount of humidity also affects the plants and animals 	
	CO2+water+su- nlight with the help of chlorophyll -heterotrophs. 3 types: Primary Consumers, Secondary Consumers, Tertiary Consumers. Goats, Snakes,	 ◆Decides physiology of plants 	◆Pigmentatio- n(colour of skin)	 ✦different vegetation leads to different animals living there 	
		 ◆Provides and Regulates proper Temper- ature 	 ✦Reproduction (with the help of vision hence light) 		
		✦RegulatesStomatalMovement	 ✦Circadian Rhythm. Waking up, sleeping, response to light 		
3.DECO-	Lions respectively. -heterotrophic. Fungus, Mushrooms. aka detrivores. no chlorophyll, hence these orgs grow on dead decaying materials of environment to absorbs them for energy/food.	✦Duration of Light			
MPOSERS		Climatic Factors-2.Temperature			

ABIOTIC	COMPONENTS	Importance for Plants	Importance for Animals	
Type 1. Climatic Factors	Light, Temperature, Humidity, Rain etc	✦Metab- olism.	✦Warm-Blooded or Endo- thermic	
Type 2.	Minerals, Soil,		animals	
Edaphic factors	Organic and Inorganic components of the soil, Substratum etc.	✦On Growth & Develo- pment	 ✦Cold – Blooded or Ecto-thermic Animals 	
the non-living factors in form of solid, liquid or gas found in the nature (ice, water, moisture		◆Thermal Stratific- ation	✦Migration or Thermal Migration	



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Not published yet. Last updated 30th July, 2022. Page 2 of 2. Sponsored by Readable.com Measure your website readability! https://readable.com