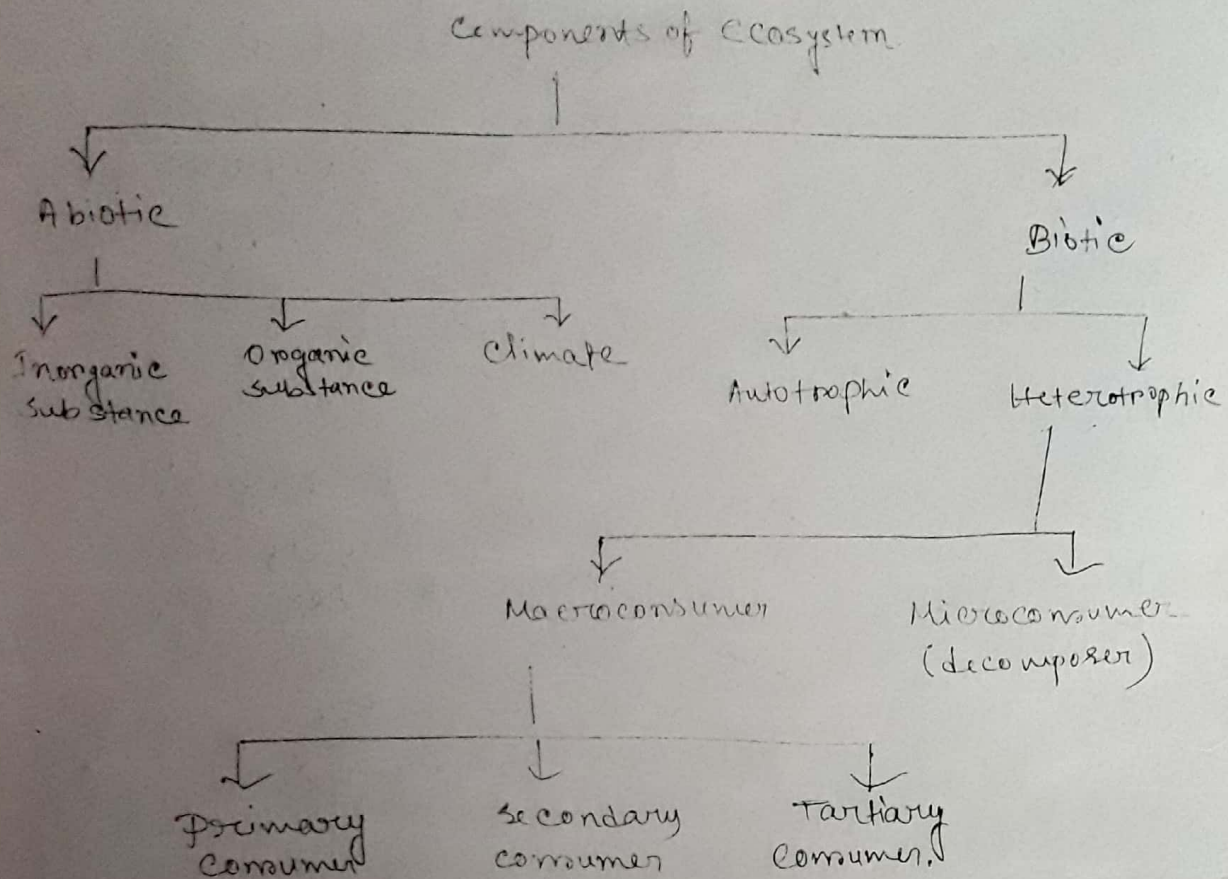


Ecology

Components of ecosystem: →



Ecosystem mainly composed of abiotic and biotic components.

abiotic: - Abiotic components includes of ecosystem are as follows:

- 1) Inorganic → O_2 , P, S, N_2 , H_2 etc. CO_2 etc.
- 2) Organic → Amino acids, Carbohydrate, protein, fat, humic acids etc.
- 3) Climate: → Air, water, soil, temperature, sunlight etc. of a particular area.

biotic: - According to nutrition level biotic components of ecosystem are of 2 types viz.

- 1) Autotrophic: → Organisms which are able to fix light energy and depend on the environment regarding raw materials (CO_2 , H_2O etc) for food production are called autotrophic components. eg - Green plants, photosynthetic bacteria etc.

They are able to produce food so they are called producer.

2) Heterotrophic: → Organisms which are unable to produce their own food nutrients and depend directly or indirectly on autotrophic components for food are called heterotrophic components.

eg - very few plants and most animals

They are divided into 2 categories viz.

a) Macroconsumer: → This type of consumer are divided into 2 classes viz. herbivorous or primary consumer and Carnivorous. Carnivorous are divided into secondary and tertiary consumer.

i) Primary consumer: → Living organisms that are entirely dependent on producer for food are called primary consumer.

eg → Terrestrial and aquatic insects, aquatic copepods, herbivorous etc. Cow, Deer, Rabbit, etc.

ii) Secondary consumer: → Carnivorous which feed on primary consumer are called secondary consumer.
eg - Dog, Cat, Wolves etc. and insectivorous animals

iii) Tertiary consumer: → Secondary consumers are consumed by another group of carnivorous called tertiary consumer. eg - Tiger, lion, Hawk, etc.

iv) Microconsumer: → The organisms which decomposed dead animal and plant remains and release inorganic substances to the environment are called microconsumers or decomposers. eg - Bacteria, fungi etc.