

9

August

Monday

Wk-33 222 144

Biotic components :-

2004

All the plants and animals together constitute the biotic components of the ecosystem.

08.00

09.00

10.00

11.00

12.00

13.00

14.00

15.00

16.00

17.00

18.00

Biotic components of ecosystem from the functional point of view:-
In a broad view biotic components of an ecosystem is divided into two types:-

(i) Autotrophic components:-

Autotrophic (auto-self, through nourishing) components of ecosystem are commonly called producers or energy transducers. They convert solar energy into chemical energy in the form of complex organic substances (carbohydrates, lipids, proteins etc) with the help of some inorganic substances (H_2O , CO_2 etc).
ex- Green plants which contain chlorophyll.

They are following two groups:-
① Photoautotrophs which contain green photosynthetic pigment chlorophyll to transduce the solar or light energy of sun, e.g., trees, grasses, algae, bacteria.

Appointments

AUGUST

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1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

2004

which use energy generated in oxidation-reduction process, but their significance in the ecosystem as producers is minimal. ex- Sulphur bacteria.

(iii) Heterotrophic components :-

Heterotrophic (Hetero - other; trophic - nourishing) organisms are called consumers as they depend for their food on the producers (autotrophs). Ex - ~~green plants~~ animals, bacteria, fungi e.t.c.

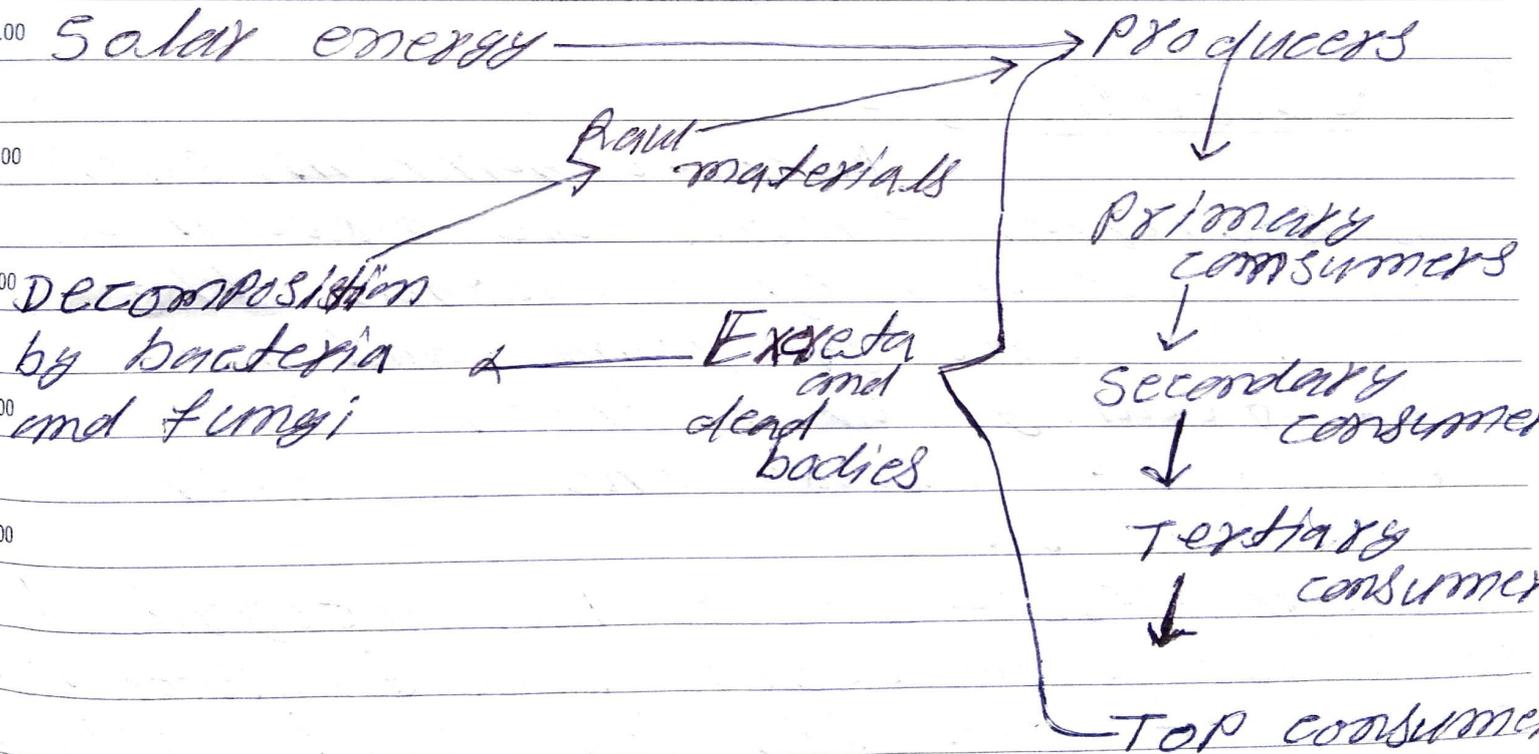


Fig:- Cyclical pathway of Ecosystem

SEPTEMBER

S M T W T F S

1 2 3 4

5 6 7 8 9 10 11

12 13 14 15 16 17 18

19 20 21 22 23 24 25

Appointments

The biotic components of an ecosystem may be classified into the following categories:-

08.00 (i) Producers:-

09.00 These are the organisms which can produce food from simple inorganic substances with the help of solar energy.

10.00 ex:- all the green plants.

11.00 (ii) Consumers:-

12.00 All the animals which directly or indirectly depend upon plants for their food requirements are called consumers.

13.00 (iii) Decomposers:-

14.00 Micro-organisms, such as bacteria, fungi, are known as decomposers. They decompose the dead bodies of plants and animals by feeding upon them, thus bringing about the simpler substances.

15.00 (iv) Transformers:- Clark has recognized some forms of bacteria as transformers. These act upon the decomposed substances and transform them into various forms of organic and inorganic substances.

Appointments

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