

good.

excellent.

Assignment No :- 1

Q1 Define | Explain (1m).

i) What is ecology ?

✓ Ecology is the branch of science which deals with the total relationship of organisms to both their organic & inorganic environment.

ii) Define aquatic ecosystem

✓ Those organisms are living into water that ecosystem is called aquatic ecosystem.

iii) Define Parasitism

✓ Those organism are depends on other animals or organism that organisms called parasites & this phenomenon is called Parasitism.

iv) What is environment ?

✓ Inter-relationship betⁿ biotic & abiotic organisms with their surrounding is called environment.

v) Explain autotrophy.

✓ The organisms can be produce their own food that organisms called Autotrophs.
eg. Plant.

Q2 vi) Describe components & str. of ecosystem. (6m)

✓ Inter relationship betⁿ biotic & abiotic component with their environment it is called Ecosystem.

There are two components of ecosystem :-

① Biotic components :-

The living things are called biotic components those are reproduce, grow, adapt & has an organized str.
eg. Tree's, Animals, Micro-organisms.

② Abiotic components :-

The non-living things are called abiotic components those are not reproduced, grow always as movement by themselves.
eg. Temp, soil, air.

Structure of ecosystem :-

There are two types of ecosystem :-
1) Natural ecosystem.

The ecosystem which developed by naturally that ecosystem is called natural ecosystem.

It also have two types.

a) Terrestrial

The ecosystem is which found on land or those animals are terrestrial habitat that called terrestrial ecosystem.

b) Aquatic :-

Those ecosystem living into the water that ecosystem called aquatic ecosystem.

a) Terrestrial ecosystem having three types :-

i) Forest ecosystem :-
The ecosystem found into the forest called forest ecosystem.

ii) Grassland ecosystem :-
The ecosystem found into grassland that called forest ecosystem.

iii) Desert ecosystem :-
The ecosystem found into Desert habitat that called desert ecosystem.

b) Aquatic ecosystem having three types :-
i) Fresh water :-
The organism found into fresh water like tap water, pond water etc. that water can be drinkable water.

ii) Marine water :-
The sea water called marine water which passes salt in it.

iii) Eutrine water :-
Eutrine water is the fresh water & marine water comes at a one point that 2 water get mix with each other called eutrine water.

There are two types of Fresh water :-
i) Jalic :-

lotic water means running water. The water is in flowing in condition.
eg. River.

✓ ~~if~~ lentic water means standing water. The
lentic water is in rest in condition.
eg. Dam, lake

2) Artificial ecosystem :-
The ecosystem which made by man called artificial ecosystem.

City, Villages.

Qs Explain food chain. & its types (4m).

Food chain :-
Transfer of energy from one trophic level to another trophic level by eating the food.
eg.

Producers → 1° Deer → 2° Fox → 3° Lion → Decomposers
 (Producers) (Consumers) (Consumers)

Types of food chain :-

i) Grazing Food chain :-

The food chain which running into grassland ecosystem that called grazing food chain.

eg. Grass → Grasshopper → Small birds → large birds.

ii) Parasitic food chain :-

Parasites means the organisms are dependy on other hosts for the feeding. They can't produce their own food. & the transfer of energy from producers to the parasites that food chain called Parasitic food chain.

eg. plants → Herbivorous → Birds → Decomposers.
(Hyper parasites).

iii) Detritus food chain :-

The food chain running into dead organic material to other top trophic level that called Detritus food chain.

eg.

Aquatic →

Dead organic material → Crustaceans / mollusca →

Decomposer / ← large ← Small fish.
Bacteria. fish.

~~Self Grazing~~