

Dr. Manisha Kumari
Assistant Professor
Deptt. of Geography
S. B. College, Ara

(14)
MARCH '17

TUESDAY

DAY 073-292 WK 11

14

B.A. Part - III

Paper - V &
Paper - VII

Date - 11/06/2017

Geographical Thoughts & Three Southern Continents
(Unit - III)
&
Environment Geography (Optional Paper) Unit - II

* Ecosystem (Continued)

Types of food chain :-

(a) Grazing food chains (b) Detritus food chains

(a) Grazing food chains :-

→ They start with green plants or primary producers and go to decomposer food chain or detritus food chain through the herbivores and carnivores.

→ They food in mainly grassland ecosystem and pond ecosystem.

(b) Detritus food chains :-

→ They start with dead organic matter like plants and animals and go to decomposer food chain through ~~herbivores~~ herbivores and carnivores.

the nature of thought to find its way into action.

- Christian Nevell Bovee

15

WEDNESDAY

Wk 11 DAY 074-291

MARCH						
Wk	M	T	W	T	F	S
09			1	2	3	4
10	6	7	8	9	10	11
11	13	14	15	16	17	18
12	20	21	22	23	24	25
13	27	28	29	30	31	

8 → They are mostly found in Grassland ecosystem and forest ecosystems.

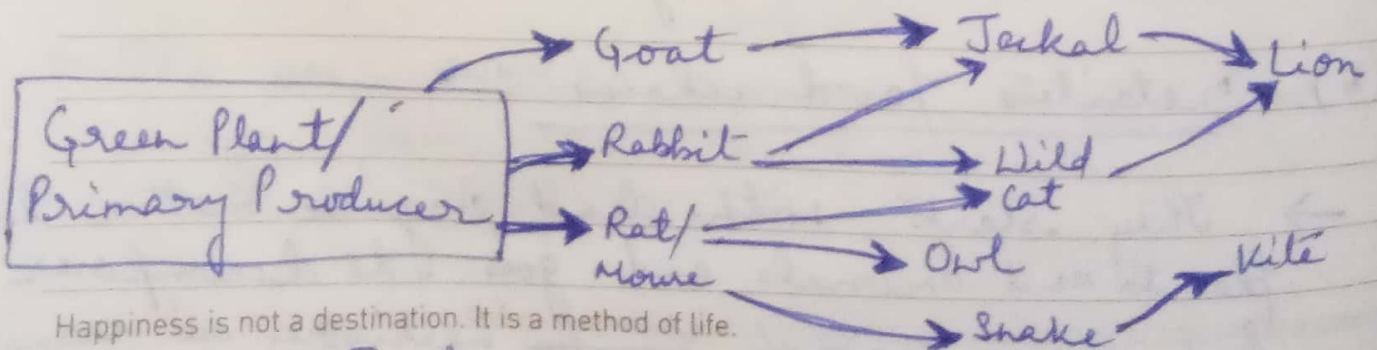
10 # (iii) Food Web :->

11 → The interlocking pattern of various food chains in an ecosystem is called food web.

1 → In food web many food chains are interconnected, where different types of organisms are connected with different trophic levels,

4 → For example - Grass may be eaten by insects, goats, rats, deer's etc. and these may be eaten by carnivores like snake, tiger, lion etc.

6 Thus, there is a interlocking of various food chains which is known as food webs.



Happiness is not a destination. It is a method of life.

Food Web in a Forest

- Burton

	S	S	F	T	W	T
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

THURSDAY

DAY 075-290 Wk 11

16

* Difference between food chains and food web :-

→ In a linear food chains if one species gets affected or becomes extinct, then the species in the subsequent trophic levels are also affected.

→ But, in a food web, if one species gets affected, it does not affect other trophic levels so seriously because there are number of options available at each trophic level.

* Significance of food chains and food webs :-

1) Energy flow and nutrient cycle takes place through them.

2) They maintain and regulate the population size of different trophic levels and helps in maintaining ecological balance.

* (iv) Food Pyramids :- → The graphical representation of structure and function of trophic levels of an ecosystem, starting with producers at the bottom and each successive trophic levels forming the apex, this is known as food Pyramids or ecological pyramids.

Ambition can creep as well as soar

→ In food chain starting from the producers to the consumers there is a regular decrease in the properties.

- Edmund Burke

Wk	M	T	W	T	F
09			1	2	3
10	4	5	6	7	8
11	9	10	11	12	13
12	14	15	16	17	18
13	19	20	21	22	23
14	24	25	26	27	28
15	29	30	31		

17

FRIDAY

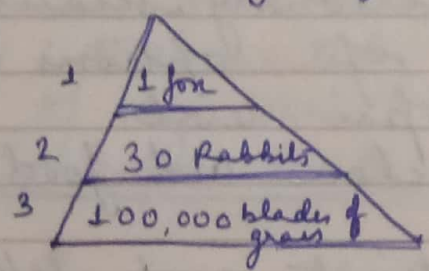
Wk 11 DAY 076-289

Types of Food Pyramids :->

- (a) Pyramids of numbers
- (b) Pyramid of energy
- (c) Pyramid of biomass

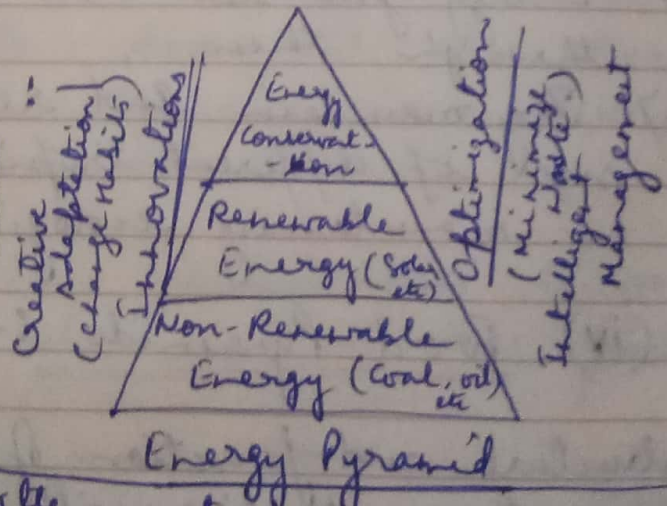
(a) Pyramid of Numbers :-

-> A pyramid of numbers can be used to show the number of organisms at each stage of a food chain.



Small numbers of large organisms.
Large numbers of small organisms.

(b) Energy Pyramid :-



(c) Pyramid of biomass :->

- > Energy moves from one trophic level to the next.
- > So energy moves from tree to caterpillars to blue tit to sparrowhawk.
- > Energy is lost at each stage due to it being lost to the environment by
 - respiration (heat energy)
 - faeces (Poo)

Happiness is a perfume you cannot pour on others without getting a few drops on yourself.

- Ralph Waldo Emerson