Chapter: - Our Environment.

Environment: - Everything cuhich surrounds as. It may include living (biotic) and non-living (abiotic) components.

Biotic: - Plants and animals.

Obiotic: - dir, water etc.

Bio-Degradable: - Substance that can be decomposed by the action of micro-organism like bacteria are called live-degradable. Eg. Organic wastes.

Non-Biodegredable: Substances which cannot be decomposed light the action of microorganisms are called non-liodegredable. en: - polythene bags, metals, radioactivie wastes etc.

Eco System and its components.

-All the interacting living organisms in an area together with non-living components form an ecosystem. So an ecosystem consists of both biotic and non living (abiotic) components like temperature, rainfall, wind, soil etc.

Ecosystem

Man-made Ecosystem eg. Crop-field, Aquareum etc.

Natural Ecosystem.

Aquatic Ecosystem

Terrestrial Ecosystem

Marine Ecosystem frish water everystem.

eg. sia, Oceans

eg. River, lakes, pands.

All organisms are classified on the basis of nutrition. Producers: - All green plants, lilue green algae can produce their food (Sugar and starch) from inorganic substance using light energy (photosynthesis). Consumers :- Include Organisms which depend on the produces directly or indirectly for their substance. Consumers Herbivores Carnivores Parasites Omnivares eg. Cow, goat eg. Lion, tiger eg. Plasmodium eg. Crow. Decemposers: Jungi & Bacterias which break down the dead plant, animals complex compounds into simpler substances. Thus decomposers help in the replinishment. Grass -> Dear -> Lion. Food Chain: - It is the sequence of living organism in which one organism consumes other organism for energy. It is undirectional. snake z Eagle: Frog Sparrow Insects Plant K

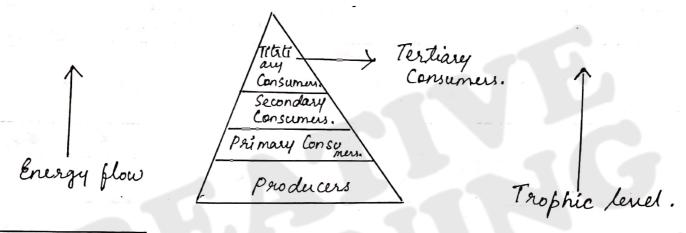
In a food chain, various steps while trasper of energy takes place called a trophic level.

- The green plants capture 17. of sun's energy.

- The flow of energy is undirectional in a food chair. - Thre is gradual decrease in the amount of energy

from one trophic level to next trophic level in a

food Chain.



10 percent law: - The energy is transferred to next level while 90% energy is used by present trophic level in its like processes.

- · The concentration of harmful chemicals in creases with every rext trophic level in a food chain. It is called Bio-magnification.
- · Maximum concentration of such chemicals get accumulated in human hodies. Since, humans occupy the top of level in any food chair.

Environmental Problems: -Changes in environment affect us and our activities change the environment around as. Environmental problems caused by humans are: -(a) depletition of Ozone layer and waste disposal. (b) Pollution due to mismanagement of waste disposal. 1. Depletion of Ozone Layer: - (03) layer is largely found in the stratosphere which is a fact of our atmosphere from 12 km - 50 km above sea level. - Ozone is a deadly poison at the ground level. $0_2 + 0 \longrightarrow 0_3$ - Ozone layer is a protective blanket around earth which.
absorbs most of the haemful UV (ultraviolet) radiation of the sky sun. -Ozone layer emits harmful ozone gases which causes skin cancer, cataract in eyes, weaken immune system etc. The decline of Ozone layer thickenss in Antartica was first observed in 1985 and was termed as Ozone Hole" Garbage Disposal: - Industrialization and rise in demand of consumer goods have created a major problem in the form of waster and its disposal. The different ways of solid weaste disposal commonly around us are:

Methods for Garbage Nisposal: 1. Open Damping: - It is a conventional method in which solid wastes dumped in selected area of 2. L'and fillings: - Wastes are dumped in low living areas and are compacted by nothing with buildozers. 3. Composting: - Organic wastes are filled into a compost pit (2m x ImxIm). It is then covered with a thin layer of soil. After about three months the same garbage filled inside the fit charges erto organic marcere. 4. Recycling: - The solid weaste is broken down into its Constituent simpler materials. These naterials are then used to make new items. 5. Reuse. I very simple conventional technique of using an item again and again. For eg. paper car hereused for making envelops etc.

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