INDIAN SCHOOL AL WADI AL KABIR			
Class: X	Department: SCIENCE 2020 -2021 SUBJECT : BIOLOGY	Date of Completion: 28.05.2020	
Worksheet No:1(A) ANSWERS ONLY	Topic: Our Environment	Note: A4 FILE FORMAT	
NAME OF THE STUDENT	CLASS & SECTION	ROLL NO.	

SOLUTION OF THE WORKSHEET

BASIC LEVEL QUESTIONS

- 1.Skin cancer ,Cataract
- 2. When a chemical enters into a food chain, its concentration increases in higher trophic levels. This is known as biological magnification.
- 3. Garden , aquarium.
- 4.The smallest interacting unit in biosphere where there is an interaction between living and non

living components.

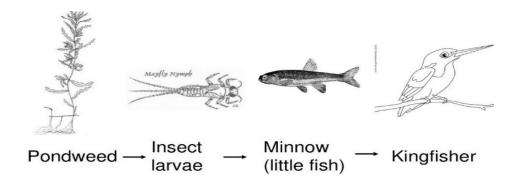
5. Cans, Plastic mugs, DDT, Nylon

INTERMEDIATE LEVEL QUESTIONS

- 1.Organisms belonging to the first trophic level in a food chain are producers. They are always autotrophs, so they prepare their own food from inorganic substances.
 - Organisms belonging to second and third trophic levels of a food chain are consumers, so they do not prepare their own food and take in organic food from producers directly or indirectly.

2.

Producers	Decomposers	
i)Producers are autotrophic organisms ,so	Decomposers are organisms that convert	
they prepare their own food from inorganic	organic dead remains into inorganic	
substances.	substances	



- i)Pond weed
- ii)Primary consumer
- iii)0.1J
- 4. Forest foodchain

tree insect bird

ADVANCED LEVEL QUESTIONS

1.

BIODEGRADABLE SUBSTANCES	NON BIODEGRADABLE SUBSTANCES
1.These are substances that can be broken down	1.These are substances that cannot be broken
to simple inorganic substances by the action of	down to simple substances by the action of
microbes naturally	microbes.
2.These are less polluting as they are naturally	2. These cause environmental pollution as they
degraded.	are chemically degraded.
3. They are considered to be more eco friendly as	3. They are considered non eco friendly as the
the products formed by their degradation are	degradation of these by chemical processes
not toxic.	release certain substances which are toxic.
4. These substances do not disturb the ecological	4.They create ecological imbalance.
balance.	
5.Examples are: Vegetable peels, Paper, Animal	5.Examples are: Plastics, DDT, Metals etc
waste etc	

2. In a food chain energy flows from producers to various consumers. Energy flow in a food chain is according to the ten percent law. At each trophic level only 10% of the received energy is transferred to the next higher trophic level. 90 percent of the received energy is utilized by the organism itself and so is considered to be lost.

In a food chain energy flows in one direction that is, always from producers to the various consumers and cannot be returned back to the previous level.

3.Decomposers help in removing dead remains from the earth surface. If they are absent then the dead remains would remain as such itself and pile up on the earth surface.

Their absence will stop the recycling of nutrients through the various cycles.

PREVIOUS YEAR QUESTIONS

- 1.Each level in a food chain is called trophic level.
- 2. Any two measures to manage the garbage we produce are:
 - Dispose biodegradable and nonbiodegradable waste separately.
 - -Using the 3Rs.
- 3.i)As an individual, reuse resources to maximum to reduce the amount of waste generated.
- ii)Converting biodegradable waste into compost.
- 4. Grass \rightarrow insect \rightarrow Frog \rightarrow Snake
- 5.Blue and green dustbins help in the safe disposal of household waste.

Blue bins are for non biodegradable substances and green bins are for biodegradable substances.

- 6.Method to dispose:
- i)domestic waste like vegetable peels -Convert it into compost
- ii)industrial waste water treat it and remove waste. Use this purified water for irrigation
- iii)plastic bottles -reuse it

7.

Food chain	Food web
Sequential transfer of energy to various organisms through the food consumed is called a food chain.	Interconnected food chains constitute a food web.

HIGHER ORDER THINKING SKILL QUESTIONS

1. Gardens known as artificial ecosystem as it is made by humans and not

naturally occurring.

2.In a food chain the flow of energy is according to 10% law.

For example, In a food chain:

Grass→Deer→Lion

The deer receives energy from grass, it uses 90% of it and transfers only 10% to

the lion. So as energy flows from one level to another, there is a decrease in it.

3.As a student suggest measures(to be answered by the student itself)

4. Biodegradable substances can be degraded naturally by microbes and are eco-

friendly but non biodegradable substances cannot be degraded naturally by

microbes and are more polluting. So they have to be disposed separately.

5. Human activities like usage of aerosol sprays, AC etc release CFCs to

atmosphere affecting the normal composition of the atmosphere as it depletes

ozone.

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