

L – 9. THE LIVING ORGANISMS AND THEIR SURROUNDINGS

CLASS: VI

HAND OUT (MODULE - 3)

Characteristics of Living Things:

1. *All living things need food.*

Plants make their own food through the process called photosynthesis.

(Autotrophs)

Animals depend on plants and other animals for their food. (Heterotrophs)

2. *All living things show growth.*



3. *All living things respire.*

The process of taking in oxygen and using it to release energy from the food and giving out carbon dioxide is called respiration.

Breathing is a part of respiration.

Different living things use different mechanism for exchange of gases during breathing.

4. *All living things respond to stimuli.*

Stimuli: The changes in our surroundings that make us to respond to them are called stimuli.

5. *All living things excrete the wastes formed in their body.*

The process of getting rid of the wastes by the living organisms is known as **Excretion.**

6. All living things reproduce their own kind.

The process by which new individual organisms – "offspring" – are produced from their "parents" is called Reproduction.

There are two forms of reproduction: asexual and sexual.

7. Movement:

Animals move from place to place in search of food, shelter and to escape from their enemies.

Plants do not move from place to place.

But they show movement in the form of closing and opening of flowers, movement of stem towards light as a response to a stimulus (light) etc.

- **Some non- living things such as bus, cars, trains, a small piece of paper, clouds etc ; also move from place to place. But their movement is not in the response to the external stimuli.**
- **Living things can move bodily or show movement of parts of organs of their body .**
- **Non-living things never move on their own effort.**
- **Though some non-living things show some of the characteristics of living things , they may not show all the characteristics at the same time.**

Are the seeds living?

Seeds are living! Yes, they are just typically in a dormant state, which means they require very little of the resources necessary to stay alive, until they are in the appropriate conditions to grow.

Inside of a seed is an embryo - a baby plant.

So, it is not easy to say ‘ What then life is?’

Just think “ Life is Beautiful” . Enjoy it.

Stay Home, Stay Safe