

The Living World

1

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Notes



1.0 Introduction

- Biology is the science of life forms and living processes. The living world comprises an amazing diversity of living organisms. The extraordinary habitats in which we find living organisms are cold mountains, deciduous forests, oceans, fresh water lakes, deserts, hot springs, etc.

1.1 What is Living?

- Living organisms exhibit certain distinctive characteristics. Growth, development, reproduction, metabolism, ability to sense environment, responsiveness are unique features of living organisms. All living organisms grow. Increase in mass and increase in number of individuals are twin characteristics of growth. Unicellular organisms grow in number by cell division. Here growth and reproduction mean the same. In majority of higher animals and plants, growth and reproduction are mutually exclusive events. Here increase in body mass is considered as growth. They grow by cell division, i.e., growth is from inside. When growth occurs continuously throughout the life span as in plants, it is **indeterminate growth** (unlimited growth). When growth occurs only upto a certain age as in animals, it is **determinate growth** (limited growth). However, cell division occurs in certain tissues to replace lost cells.
- Non-living objects also grow by increase in body mass. Mountains, boulders and sand mounds do grow. This kind of growth exhibited by non-living objects is by accumulation of material on the surface is called **accretion**. In living organisms, growth is from inside. Hence, **growth cannot be taken as a defining property of living organisms**.
- Reproduction is a characteristic of living organisms. It is the ability of an individual to give rise to new individual of its own kind. Reproduction may be sexual or asexual. Fungi multiply and spread easily due to the millions of asexual spores they produce. Lower organisms like yeast and *Hydra*, multiply by budding. *Planaria* (a flatworm), reproduces by regeneration, i.e., a fragmented organism regenerates the lost part of its body and becomes, a new organism. The fungi, the filamentous algae, the protonema of mosses, all easily multiply by fragmentation. There are many organisms which do not reproduce like mules, sterile worker bees, infertile human couples, etc. Hence, **reproduction also cannot be an all-inclusive defining characteristic of living organisms**. Of course, no non-living object is capable of reproducing or replicating by itself.
- All living organisms are made of chemicals which are constantly being made and changed into some other biomolecules. These conversions are chemical reactions or metabolic reactions. Sum total of all chemical reactions occurring in our body is called **metabolism**.

The Living World Science In Action Science In Action

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