

Biology

• Derived from the 2 Greek words "BIO" meaning "life" and "LOGOS" meaning "study."
Defined as the

"Science of life and living organisms."

- Natural science that studies life and living organisms, including their physical structure, chemical processes, molecular interactions, physiological mechanisms, development, and evolution.
- Life is considered a characteristic of something that preserves, furthers, or reinforces its existence in the given environment.

Five (5) Kingdoms of Living Organisms

- Animals
- Plants
- Fungi
- Protist
- Bacteria



Six (6) Major Branches of Biology

1. Zoology- scientific study of animals.
2. Botany- scientific study of plants.
3. Microbiology- study of microorganisms, those being unicellular, multicellular, or acellular.
4. Genetics- study of genes, genetic functions, and hereditary in organisms.
5. Anatomy- study of the structure of organisms and their parts.
6. Physiology- deals with the normal functions of living organisms and their parts.



Seven (7) Characteristics of Life

1. **Growth and Development:** Living organisms exhibit growth, which involves an increase in size and complexity. They also undergo development, a series of changes in form and function as they mature from infancy to adulthood.
2. **Reproduction:** Living organisms have the ability to reproduce, creating offspring that are similar to themselves. Reproduction is a fundamental characteristic of life and ensures the continuation of a species.
3. **Cellular Organization:** Cells are the fundamental structural and functional components of life, making up all living entities.
4. **Homeostasis:** Even in the presence of external changes, living things are able to maintain a constant internal environment. The life and proper operation of these systems depend on this stability.
5. **Metabolism:** All living things carry out metabolic processes, which involve acquiring, using, and converting energy and nutrients to support life functions. These processes include digestion, respiration, and energy production.
6. **Response to Stimuli:** Living organisms can respond to their environment. They can detect and react to changes or stimuli in their surroundings, such as light, temperature, or chemicals. This responsiveness is often called irritability or sensitivity.
7. **Evolution and Adaptation:** All organisms undergo the process of adaptation to suit themselves to their environment.

Cell is the basic unit of life

Prokaryotes are organisms made up of cells that lack a cell nucleus or any membrane-encased organelles.

Eukaryotes are organisms made up of cells that possess a membrane-bound nucleus (that holds DNA in the form of chromosomes) as well as membrane-bound organelles.

Life Manual For General Biology Answer Keys

A Gutmann



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