

Semester II

Unit I

Topic - Importance of Biological
Science in Daily Life

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Biology is important to everyday life because it allows humans to better understand their bodies, their resources and potential threats in the environment. Biology is the study of all living things, so it helps people to understand every organism alive, from the smallest bacteria to California redwoods and blue whales. Professional biologists often concentrate on a small subset of living organisms, such as birds, plants or bacteria.

The study of biology has helped humans to understand the similarities between all forms of life. For example, the genetic code that helps to construct all living organisms is very similar in all life forms. The genetic material is stored in the form of DNA for all plants, animals, bacteria and fungi. By studying the DNA of all these different life forms, biologists have determined that all living creatures are related to each other.

Biology has also helped doctors learn how to keep people healthy and fight off disease. Biologists have learned that things called pathogens, which are themselves other living entities, cause diseases. By understanding how these dangerous organisms work, scientists can fight them off. Because of biology, many people have lived long lives as they have been able to avoid diseases.

Importance of Biology in our Daily Lives with Respect to Agriculture and Industry

1. Agriculture plays great role narrating the importance of biology in our daily lives. Agriculture is largely the result of man's taking the advantage of the inter relations of soil, climate and natural habitat to select those particular combinations that meet his basic requirements. Thus to provide necessary food, man depends entirely on green plants that can alone capture the solar energy.

2. High yielding varieties of crop plants like rice, wheat, jute, sugar cane, pulses etc. are now bred experimentally. Disease resistant grains and verbalized seeds are made.

3. Biological control strategies are undertaken as pest control emphasizing the importance of biology in our daily lives.

4. Modern man does not depend on fishing and hunting like our ancestors and instead rears fishes as well as cattle and various other domestic animals to get food and other necessities of life. This has resulted in the development of fishery and animal husbandry.

5. The importance of biology in our daily lives lies in the production of clothing's and timber for making furniture's, in supplied raw materials for paper, dyes, etc.

6. Fossils are important in locating underground oil and natural gas reserves. Even coal and mineral oil formed from decomposed plant bodies are key to industrial prosperity.

Importance of Biology in our Daily Lives with Respect to Health and General well Being

1. Medical advancement also shows the importance of biology in our daily lives. The study of dreaded diseases, their causative agents, cure as well as the actions of drugs are a way of biological enlightenment that strives minimizing human suffering.

2. Importance of biology in our daily lives also lies in finding and curing hereditary abnormalities like haemophilia, Down's syndrome, etc.

3. Biology aims in making effort to better human race through eugenics.

4. Biology study has a vital role in controlling environmental pollution and attracted sense of art and beauty.