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ORIGIN AND EVOLUTION OF LIFE AND INTRODUCTION TO CLASSIFICATION

The planet earth came into existence sometime between 4 and 5 billion years ago. Life evolved on planet earth about 3.5 billion years ago. Since then, approximately 15 million different species of organisms have evolved. But only about two million have been identified so far. In this lesson we will learn how life of these, at first originated on earth and how such a vast variety of organisms, popularly known as biodiversity, evolved through variation and natural selection.

The study of such a wide variety of organisms becomes convenient only when they are grouped according to similarities and differences, named, and their evolutionary relationships established. We will also learn about the importance and method of classification of organisms in this lesson and understand the position of viruses and viroids vis-a-vis the web of the living world.



OBJECTIVES

After completing this lesson, you will be able to :

- describe the widely accepted 'theory of origin of life';
- explain what is organic evolution;
- give morphological, palaeontological, embryological and molecular evidences in favour of organic evolution;
- state modern theory of evolution;
- explain the sources of organic variations (gene and chromosomal mutations, recombination, gene flow and genetic drift);
- explain natural selection with examples;
- explain the role of isolation in evolution;
- list the various isolating mechanisms;
- explain speciation;
- understand Hardy-Weinberg Equilibrium to relate genetics and evolution.
- define classification;

Biology Evolution Answers Chap 15

Liebaert



Biology Evolution Answers Chap 15:

Unveiling the Power of Verbal Art: An Mental Sojourn through **Biology Evolution Answers Chap 15**

In some sort of inundated with monitors and the cacophony of immediate communication, the profound energy and emotional resonance of verbal beauty usually diminish into obscurity, eclipsed by the constant assault of sound and distractions. Yet, set within the musical pages of **Biology Evolution Answers Chap 15**, a fascinating work of literary elegance that impulses with fresh emotions, lies an memorable trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this mesmerizing opus courses readers on a psychological odyssey, delicately exposing the latent possible and profound affect stuck within the complex web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is central subjects, dissect its interesting writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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