



Notes

# 1

## 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

**RJ Shavelson**



## **Biology Evolution Answers Chap 15:**

The book delves into Biology Evolution Answers Chap 15. Biology Evolution Answers Chap 15 is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Biology Evolution Answers Chap 15, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Biology Evolution Answers Chap 15
    - Chapter 2: Essential Elements of Biology Evolution Answers Chap 15
    - Chapter 3: Biology Evolution Answers Chap 15 in Everyday Life
    - Chapter 4: Biology Evolution Answers Chap 15 in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Biology Evolution Answers Chap 15. The first chapter will explore what Biology Evolution Answers Chap 15 is, why Biology Evolution Answers Chap 15 is vital, and how to effectively learn about Biology Evolution Answers Chap 15.
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  6. In chapter 5, this book will draw a conclusion about Biology Evolution Answers Chap 15. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Biology Evolution Answers Chap 15.

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