

1. Discuss how classification systems have undergone several changes over a period of time?

☞ Earlier the system of classification was based on superficial resemblances. These systems were **artificial**. E.g. animals were classified as aquatic, terrestrial and aerial. Plants were classified as herbs, shrubs and trees based on their habit.

Artificial systems were followed by **natural system**. It is based on structural and morphological, physiological, cytological, ontogeny and taxonomic characters.

Now a days, the organisms are classified on the basis of their evolutionary interrelationship. Such classifications are **phylogenetic**.

Recently, **phenetic classification** has evolved. It is a system of phylogenetic classification which is based on affinities, similarities and dissimilarities of characteristics present in the present-day organisms without searching for the evolution and diversification of these traits in their fossil ancestors.

2. State two economically important uses of: (a) heterotrophic bacteria (b) archaebacteria

☞ (a) heterotrophic bacteria:

They act as natural scavengers by removing harmful organic wastes. In soil, they improve the fertility of soil by formation of humus, manure etc. Some bacteria are used to produce lactic acid, curd, cheese, butter, vinegar etc.

(b) Archaebacteria:

These are used in the production of methane (biogas) from animal wastes. Biogas is used to run a generator that produces electricity, e. g., *Halobacterium*, *Thermoplasma*.

3. What is the nature of cell-walls in diatoms?

☞ Diatoms have siliceous cell walls forming two thin overlapping shells, which fit together as in a soap box. The cell wall deposit of diatoms over billions of years in their habitat is known as "**diatomaceous earth**".

4. Find out what do the terms 'algal bloom' and 'red-tides' signify.

☞ The rapid increase in populations of algae and other phytoplankton, in particular cyanobacteria that occurs in inland water systems, such as lakes is called **algal bloom**.

**Red diatoflagellates** (E.g. *Gonyaulax*) undergo rapid multiplication so that the sea appears red. This phenomenon is called **red tides**. They release toxins that kill marine animals like fishes.

5. How are viroids different from viruses?

☞ Differences between virus and viroid:

Virus	Viroid
It is a nucleoprotein particle.	It is an RNA particle.
Nucleic acid can be DNA or RNA.	It is formed of only RNA
A protein covering or coat is present.	A protein coat is absent.
Large sized.	Smaller sized.
It infects all types of organisms.	It infects only plants.

6. Describe briefly the four major groups of Protozoa.

☞ 4 major groups of protozoans:

- **Amoeboid protozoans:** They live in fresh water, sea water or moist soil. They move and capture prey by putting out **pseudopodia** (false feet). E.g. Amoeba. Marine forms have silica shells on their surface. Some of them are parasites. E.g. *Entamoeba*.
- **Flagellated protozoans:** They are either free-living or parasitic. They have **flagella**. The parasitic forms cause diseases such as sleeping sickness. E.g. *Trypanosoma*.
- **Ciliated protozoans:** They are aquatic, actively moving organisms using thousands of **cilia**. They have a cavity (gullet) that opens to outside. By the movement of cilia, the water with food enters gullet. E.g. *Paramecium*.
- **Sporozoans:** They are organisms that have an infectious spore-like stage in their life cycle. E.g. *Plasmodium* (malarial parasite).

7. Plants are autotrophic. Can you think of some plants that are partially heterotrophic?

# Biological Classification Answers

**Dr S Venugopal**



**Biological Classification Answers:**

## The Enigmatic Realm of **Biological Classification Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Biological Classification Answers** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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### **Table of Contents Biological Classification Answers**

1. Understanding the eBook Biological Classification Answers
  - The Rise of Digital Reading Biological Classification Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Biological Classification Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Biological Classification Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Biological Classification Answers
  - Personalized Recommendations
  - Biological Classification Answers User Reviews and Ratings

- Biological Classification Answers and Bestseller Lists
- 5. Accessing Biological Classification Answers Free and Paid eBooks
  - Biological Classification Answers Public Domain eBooks
  - Biological Classification Answers eBook Subscription Services
  - Biological Classification Answers Budget-Friendly Options
- 6. Navigating Biological Classification Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Biological Classification Answers Compatibility with Devices
  - Biological Classification Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Biological Classification Answers
  - Highlighting and Note-Taking Biological Classification Answers
  - Interactive Elements Biological Classification Answers
- 8. Staying Engaged with Biological Classification Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Biological Classification Answers
- 9. Balancing eBooks and Physical Books Biological Classification Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Biological Classification Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Biological Classification Answers
  - Setting Reading Goals Biological Classification Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biological Classification Answers
  - Fact-Checking eBook Content of Biological Classification Answers
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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THE GLASS MENAGERIE, [MUSIC: 'THE GLASS MENAGERIE' UNDER FAINTLY. Lightly.] Not one gentleman ... [MUSIC: 'THE GLASS MENAGERIE'. He stretches out his hand.] Oh, be careful - if ... The Glass Menagerie book script of the play. [SCREEN LEGEND: 'OÙ SONT LES NEIGES."] There was young Champ Laughlin who later became vice-president of the Delta Planters. Bank. The Glass Menagerie - Tennessee Williams (AMANDA exits through living-room curtains. TOM is left with LAURA. He stares at her stupidly for a moment. Then he crosses to shelf holding glass menagerie. The Glass Menagerie Amanda Wingfield is a faded, tragic remnant of Southern gentility who lives in poverty in a dingy St. Louis apartment with her son, Tom, and her daughter, ... The Glass Menagerie When Amanda convinces Tom to bring home from his workplace a "gentleman caller" for Laura, the illusions that Tom, Amanda, and Laura have each created in order ... The Glass Menagerie Text Scene 1: The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as. Tennessee Williams - The Glass Menagerie (Scene 3) LEGEND ON SCREEN: 'AFTER THE FIASCO' [TOM speaks from the fire-escape landing.] TOM: After the fiasco at Rubicam's Business College, the idea of getting a ... "The Glass Menagerie," Scene One and Scene Two, by ... 41 Scene 1. 352 The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams - The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ... Business Communication: Building Critical Skills Business Communication: Building Critical Skills was built to provide the ultimate in freedom, flexibility, and focused classroom. Broken into 30 modular ... Business Communication: Building Critical Skills Feb 28, 2013 — Business Communication: Building Critical Skills. 6th Edition. 0073403261 · 9780073403267. By Kitty O. Locker, Stephen Kyo Kaczmarek. © 2014 ... Business Communication - Business - College Business Communication: Building Critical Skills. Higher Education Business Communication: Building Critical Skills 6th Edition By Kitty O. Locker, Stephen ... Business Communication: Building Critical Skills Business

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