

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

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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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