

Protists Quiz Answer Key PDF

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What are some of the challenges in classifying protists into distinct groups?

Some challenges in classifying protists into distinct groups include their immense diversity, the overlap of characteristics with other kingdoms (plants, animals, fungi), and the presence of both unicellular and multicellular organisms.

Which of the following are roles of protists in ecosystems
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- A. Decomposer ✓
- B. Pathogens ✓
- C. Primary producers ✓
- D. Pollinators

Which protist is often used as a model organism in biological research?

- A. Plasmodium
- B. Paramecium ✓
- C. Giardia
- D. Trypanosoma

What are the methods of reproduction in protists?

- A. Binary fission ✓
- B. Budding
- C. Conjugation ✓
- D. Sp ore formation ✓

Discuss the evolutionary significance of protists in the development of multicellular life.



The evolutionary significance of protists in the development of multicellular life lies in their ability to exhibit various forms of cellular organization, such as colonial and multicellular structures, which served as precursors to more complex multicellular organisms.

Describe the process of conjugation in protists and its significance.

Conjugation in protists involves two cells coming together to exchange genetic material, typically through a structure called a conjugation tube. This process results in the formation of new genetic combinations, which is crucial for evolution and adaptation.

What is the primary ecological role of algae in aquatic environments?

- A. Decomposer
- B. Predator
- C. Primary producer ✓
- D. Parasite

Explain the role of protists in biotechnology and medical research.

Protists are utilized in biotechnology and medical research for their diverse biological functions, including the production of pharmaceuticals, enzymes, and biofuels, as well as serving as model systems for understanding disease mechanisms and drug development.

Which structure is commonly used by protists for movement?

- A. Pseudopodia ✓
- B. Roots
- C. Wheels
- D. Tentacles

Which of the following is an example of a plant-like protist?

- A. Amoeba
- B. Paramecium
- C. Euglena ✓
- D. Plasmodium



	What is the primary	y characteristic that	t distinguishes	protists from	prokaryotes'
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- A. Lack of a nucleus
- B. Presence of a nucleus ✓
- C. Ability to photosynthesize
- D. Multicellularity

Which of the following protists is known for its unique glass-like cell wall?

- A. Amoeba
- B. Diatom ✓
- C. Paramecium
- D. Euglena

What type of nutrition do autotrophic protists use?

- A. Parasitic
- B. Saprophytic
- C. Photosynthetic ✓
- D. Heterotrophic

In which environments can protists be found?

- A. Freshwater ✓
- B. Marine ✓
- C. Soil ✓
- D. Air

Which of the following are characteristics of protists?

- A. Eukaryotic cells ✓
- B. Multicellular
- C. Can be autotrophic or heterotrophic ✓
- D. Lack a nucleus

Which of the following protists are known to be pathogenic to humans?

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A.	Giardia ✓
В.	Paramecium
C.	Plasmodium ✓
D.	Trypanosoma ✓

Which of the following are examples of protozoa?

A.	Amoeba ✓	
В.	Plasmodium	√
C.	Diatom	
D.	Paramecium	√

How do protists serve as indicators of environmental changes? Provide examples.

Protists serve as indicators of environmental changes by responding to alterations in their habitats, such as pollution levels and nutrient availability. For instance, the decline of specific diatom species can indicate increased water pollution, while harmful algal blooms can signal nutrient overloads in aquatic systems.

Which group of protists is primarily responsible for causing malaria?

A. AlgaeB. Slime moldsC. Protozoa ✓D. Diatoms

Explain how protists contribute to the aquatic food web.

Protists contribute to the aquatic food web primarily as phytoplankton, which are photosynthetic organisms that convert sunlight into energy, forming the base of the food chain. Additionally, they serve as food for zooplankton and other aquatic animals, linking primary production to higher trophic levels.