

Protists and Fungi REVIEW

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ___ 1. A protist is any organism that is not a plant, an animal, a fungus, or a(an)
a. eukaryote. c. eubacterium.
b. prokaryote. d. archaebacterium.
- ___ 2. Most protists are
a. prokaryotes. c. archaebacteria.
b. unicellular. d. anaerobic.
- ___ 3. According to Lynn Margulis, eukaryotic cells may have evolved from
a. a symbiosis of several cells. c. chloroplasts that grew very large.
b. mitochondria that grew very large. d. plants, animals, and fungi.
- ___ 4. In an amoeba, a small cavity within the cytoplasm that stores food is called a
a. gullet. c. food vacuole.
b. pseudopod. d. contractile vacuole.
- ___ 5. Protists living inside termites
a. infect the termites with disease.
b. prevent the termite from digesting wood.
c. produce the enzyme cellulase.
d. recycle nutrients by decomposing organic matter.
- ___ 6. Which substances allow algae to harvest and use the energy from sunlight?
a. cilium and fucoxanthin c. phycobilin and flagellum
b. chlorophyll and accessory pigments d. oogonium and antheridium
- ___ 7. A bloom is
a. the clouding of water by sewage.
b. an enormous mass of algae.
c. a symbiotic relationship between algae and coral.
d. none of the above
- ___ 8. Phytoplankton are only found at the surface of ocean waters because
a. they feed on tiny organisms living at the surface.
b. they are an important food source to surface-dwelling marine organisms.
c. they require sunlight to carry out photosynthesis.
d. they cannot withstand the colder temperatures of deep water.
- ___ 9. Giant kelp, the largest known species of algae, is a type of
a. brown algae. c. red alage.
b. green algae. d. diatom.
- ___ 10. What characteristic of plants is shared by green algae?
a. cell wall composition c. multicellularity
b. photosynthetic pigments d. all of the above
- ___ 11. Approximately what percent of all the photosynthesis on Earth is carried out by algae?
a. 0% c. 50%

37. Eukaryotes that are not members of the kingdoms Plantae, Animalia, or Fungi are considered _____.
38. The first protists evolved approximately _____ years ago.
39. Animal-like protists that use structures called _____ for movement and for feeding are members of the phylum Sarcodina.
40. The phylum of animal-like protists often referred to as _____ have a name that reflects the fact that they use flagella for movement.
41. The sporozoan *Plasmodium*, carried from host to host by mosquitoes, causes _____, a very serious infectious disease.
42. Chlorophyll and accessory pigments allow algae to harvest and use the energy of _____.
43. Because algae undergo _____, they produce much of Earth's atmospheric oxygen.
44. _____ protists are heterotrophs that absorb nutrients from dead or decaying organic matter.
45. Fungi _____ their food outside their bodies and then absorb it.
46. It is unwise to pick and eat fungus from the wild because edible mushrooms sometimes look identical to _____ mushrooms.
47. Fungi break down complex organic matter by releasing _____.

Short Answer

48. What are the individual threads of a fungus called, and what structure do they form when they appear as a tangled mass?
49. What three functions do rhizoids serve in fungi?
50. Name two commercial uses of yeast.

