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## **Characteristics Of Protists** (p. 460 – 471)

## I. Diversity

1. Define the term Kingdom Protista.

Kingdom Protista - unsually diverse assortment of enkaryotes that exhibit a broad range of characteristics

- 2. Circle the letter of the sentence that is false concerning protists.
  - a. Protists exhibit a wide range of feeding styles.
  - b. The means of movement of protists varies significantly.
  - c. Protists normally exist in aquatic environments.
  - d. Protists cannot respond to environmental stimuli. Eyes pots, Repoductive Changes
- 3. What are two traits that evolved among protists?

1. Sexual Reproduction 2. Multicellularity

Protozoans: Heterotrophic (Animal-like)
Algae: Photosynthetic (Plant-like)

- II. Ameboid Movement (Phylum Sarcodinia) "Protozoans"
  - 1. Define the term pseudopod.

Pseudopod - temporary projections of cytoplasm (used for feeding + movement)

2. Describe the ameboid movement of pseudopodia.

- Cytoplasm of a cell streams into a pseudopod.

3. List two examples of protists that use ameboid movement for locomotion.

1. A moebas 2. Foraminiferans

4. Circle the letter of each sentence that is true about amoebas. (not shelled)

(a.) Amoebas are very flexible, with no cell walls or flagella.

b. They live in fresh water, but not salt water. (abundant in soil)

c. Amoebas reproduce sexually. (binary fision)

d. Many amoebas are free-living, but some are parasitic.

5. Circle the letter of each sentence that is true about foraminiferans.

a. They live in fresh water environments.

(b.) Forams possess tiny, porous shells called tests.

c. Cytoplasmic extensions that extend from the pores of tests assist with movement.

d. The calcium carbonate shells accumulate on ocean floors.

Radiolations - Silla shells

	Name						
III. Alg	ae						
p. 465	. Algae can be single-celled or multicellular, but must be photosynthetic.						
Chlorophyll	Circle One: True False						
atc = yellon-brown 2	What two characteristics distinguish algae groups?						
purple or black	1. Type of pigment 2. Cell or Body Shape						
3	. Circle the letter of the sentence that is <u>false</u> concerning green algae.						
- Ulva - Volvex - Spirogyra - Chlamydononas	<ul> <li>a. Green algae belong to the Phylum Chlorophyta.</li> <li>b. They are mainly unicellular, freshwater organisms, but large marine forms exist.</li> <li>c. Green algae are a major part of microscopic marine plankton.</li> <li>d. The pigments of green algae is different than that found in plants.</li> </ul>						
(	. Circle the letter of the sentence that is false concerning red algae.						
Ex. Coralline Alyne	a. Red algae belong to the Phylum Rhodophyta.  b. They are mainly unicellular, freshwater organisms.  c. Their pigments help them absorb various wavelengths of light at deep depths.  d. Commercially used to make agar and carrageenan.						
	. Circle the letter of the sentence that is false concerning brown algae.						
- Kelp - Sergnssum (Sargasso Sea)	<ul> <li>a. Brown algae belong to the Phylum Phaeophyta.</li> <li>b. They are multicellular, freshwater organisms.</li> <li>c. Coastline kelp provides food and shelter for multiple organisms.</li> <li>d. They are among the largest organisms on Earth.</li> </ul>						
IV. Dia	toms (Phylum Bacillariophyta) – "Algae"						
1	. Define the term diatoms.						
P-466)	Diatoms - photosynthetic unicellular protests with unique double shells						
2	2. Circle the letter of each sentence that is true concerning diatoms.						
	a. Diatoms are photosynthetic, unicellular protists.  b. They possess unique double shells that are shaped like a petri dish.  c. Diatoms exhibit bilateral (two-sided) or radial (wheel-like) symmetry.  d. They are incapable of movement.						
	3. What is diatomaceous earth?						
	- Thick deposits of diator shells that are						
	mined commercially (Toothpaste filters insulation)						

	Name					
gellates						
1. What enables flagellates and ciliates to move?						
Flagellates: Flagella (whip-like structure)	Ciliates: Cilia					
2. Circle the letter of the sentence that is false co	ncerning dinoflagellates ("Algae").					
a. They are unicellular and possess two flag b. Dinoflagellates are mainly marine organi c. Some dinoflagellates produce biolumines d. They are strictly photosynthetic organism heterotrophic are 3. Circle the letter of the sentence that is false co	sms that make up part of plankton.					
<ul> <li>a. They are unicellular, freshwater organisms with two flagella.</li> <li>b. Many euglena are photosynthetic and possess chloroplasts.</li> <li>c. Euglena possess a pellicle, which is a non-flexible and does not change shape.</li> <li>d. They have an eyespot, which is sensitive to light sources.</li> </ul>						
a. They are unicellular, heterotrophs with at least one flagellum.  b. They are closely related to Euglenoids.						
d. They are known to cause human disease.	s.					
5. Circle the letter of the sentence that is false co	oncerning ciliates ("Protozoans").					
a. A large number of cilia are present, which beat in rhythm to propel the organism.  b. They are complex, unicellular heterotrophs.  c. Like euglenoids, they possess a tough, flexible outer pellicle.  d. They do not have a nucleus.  Macronulaus Micronulaus  Protistan Molds – "Protozoans"  Small pieces of WA  Contain changings						
1. Match the type of protistan mold with the co						
1. Cellular Slime Mold						
2. B Plasmodial Slime Mold	B. Mass of cytoplasm that looks like oozing slime					
3. A Oomycetes	C. Look like amoebas, develop "slug" colonies					
Sporozoans – "Protozoans"						
1. Circle the letter of each sentence that is true concerning sporozoans.						
a. They form spores during their reproductive cycle.  b. They are non-motile, unicellular parasites.  c. Sporozoans have only one host.  d. Diseases can be passes in food or water contaminated with infected feces.						
Mularia Plasmodium	Cryptosporidium - Diarchea					

V. Flagellates

Texoplusmosis - Toxoplusm

VI. Protistan Molds - "Protozoans"

VII. Sporozoans - "Protozoans"