Biology Chapter 20: Homework

Hmwrk 20-1

- 1. What is a protist?
- 2. What does Protista mean in Greek?
- 3. According to Lynn Margulis, where did the first protists come from?
- 4. Many biologists think that protists need to be classified into separate kingdoms. What is one way to classify protists?

Hmwrk 20-2

- 1. What are zooflagellates?
- 2. What are sarcodines? Define pseudopods.
- 3. What are trichocysts?
- 4. What is the difference between macronucleus and micronucleus?
- 5. What are sporozoans?
- 6. What is malaria? Describe how a person is infected.

Hmwrk 20-3

- 1. What are accessory pigments and how do they differ from chlorophyll?
- 2. What are euglenophytes? Describe their structure.
- 3. What are diatoms? Describe their shape.
- 4. What are dinoflagellates? Describe a unique property of some.
- 5. What is phytoplankton and what is their importance?

Hmwrk 20-4

- 1. What are the differences between red algae and brown algae?
- 2. What are the three types of green algae? What are their similarities and differences?
- 3. What is alternation of generations?
- 4. What is the difference between gametophytes and sporophytes? What do they produce?
- 5. Name two uses of algae by humans.

Hmwrk 20-5

- 1. What is the difference between cellular slime molds and acellular slime molds?
- 2. What is another term for water molds and what are they?
- 3. What are the two different structures that are produced on the hyphae of water molds during sexual and asexual reproduction?
- 4. What organism caused the Irish Potato Famine and why it's an important historical event?

Biology Chapter 20: Study Guide

Section 1

Vocabulary

protist

- Know what a protist is and why protists do not fit into any other kingdom
- Know what *Protista* means in Greek
- Know how protists might have evolved (Margulis)
- Know one approach to reclassifying protists

Section 2

Vocabulary

Pseudopod Trichocyst Anal pore

Amoeboid movement Macronucleus Contractile vacuole

Food vacuole Micronucleus Conjugation

Cilium Gullet

• Know what zooflagellates are, their mode of food consumption, their habitat, and their reproduction methods

- Know what sarcodines are, their mode of food consumption, their habitat, and their reproduction methods
- Know what ciliates are, how they got that name, their mode of food consumption, their habitat, and their reproduction methods
- Know the internal anatomy of a paramecium
- Know what sporozoans are, their mode of food consumption, their habitat, and their reproduction methods
- Know what malaria, African Sleeping Sickness, and amebic dysentery and what they are caused by, how you can contract the disease, and what the symptoms are
- Be able to describe the cycle of infection of malaria
- Know some beneficial animallike protists that form symbiotic relationships

Section 3

Vocabulary

Accessory pigment Pellicle
Eyespot Phytoplankton

- Know what key traits are used to classify algae
- Know the different forms of chlorophyll and why they are needed
- Know what accessory pigments are and what they allow algae to do
- Know what euglenophytes are, their structure and their habitat
- Know what chrysophytes are and their structure
- Know what diatoms are and their structure
- Know what dinoflagellates are, their structure and some unique properties
- Know the ecological roles that plantlike protists play

Section 4

Vocabulary

Phycobilin Alternation of generation Spore Filament Gametophyte Sporophyte

- Know the differences and similarities between red, brown and green algae including structure, habitat, and importance
- Know the differences and similarities between the three types of green algae
- Know the reproduction methods of green algae in general
- Know the reproduction methods of *chlamydomonas* and *Ulva*
- Know the difference between gametophytes and sporophytes and what they produce
- Know some of the human uses of algae

Section 5

Vocabulary

Cellular slime mold Plasmodium Antheridium
Acellular slime mold Hypha Oogonium
Fruiting body Zoosporangium

- Know what slime molds are, their habitat, their structure and their two groups
- Know the differences and similarities between cellular slime molds and acellular slime molds
- Know what water molds are, another name for them, their structure, and their reproduction methods
- Know the structures that are produced on the hyphae of slime molds during sexual and asexual reproduction
- Know why slime molds and water molds are important in the environment
- Know what the Irish Potato Famine was, what caused it and what its importance is