

Biology Chapter 27: Homework

Hmwrk 27-1

1. What is a flatworm?
2. Describe how flatworms feed including defining the term pharynx.
3. Describe how a flatworm responds to the environment including defining the term ganglia and eyespot.
4. How does a flatworm reproduce?
5. List the three groups of flatworms and briefly describe each.

Hmwrk 27-2

1. What is a roundworm?
2. Describe how a roundworm moves.
3. Pick one human disease caused by a roundworm and describe it in detail.
4. What kinds of research are being done on *C. elegans* and why?

Hmwrk 27-3

1. What is an annelid?
2. How does an earthworm feed? Be sure to define crop and gizzard.
3. How do annelids reproduce? Be sure to define clitellum.
4. List the three groups of annelids and briefly describe each.
5. Why are earthworms so important?

Hmwrk 27-4

1. What is a mollusk?
2. Describe the four parts of a mollusk body plan
3. What is the difference between an open circulation system and a closed circulatory system (refer to section 3 and 4)?
4. What are the three groups of mollusks and briefly describe each.
5. How are mollusks being used to test water quality?

Biology Chapter 27: Study Guide

Section 1

- Vocabulary

Acoelomate

Ganglion

Scolex

Coelom

Eyespot

Proglottide

Pharynx

Hermaphrodite

Testis

Flame cell

Fission

- Know the characteristics of a flatworm
- Know the basic structure of a flatworm in terms of how it performs functions like excretion and respiration
- Know how free-living flatworms and parasitic flatworms feed
- Know how flatworms perform respiration, circulation, excretion, and movement
- Know how a flatworm responds to stimuli and where their sense organs are located
- Know how a flatworm reproduces
- Know the three groups of flatworms and characteristics of each
- Know the infectious parasite that causes schistosomiasis and how it infects a human

Section 2

- Vocabulary

Pseudocoelom

Anus

- Know the characteristics of a roundworm
- Know how a roundworm performs feeding, respiration, circulation, excretion, response, movement and reproduction
- Know the four human diseases caused by roundworms including causes, symptoms, and any other distinguishable characteristics
- Know what kinds of research are being done on *C. elegans* and why

Section 3

- Vocabulary

Septum

Gizzard

Clitellum

Seta

Gill

Closed circulatory system

Crop

Nephridium

- Know the characteristics of an annelid
- Know the different ways in which annelids obtain food
- Know the difference between a closed circulatory system (annelids) and an open circulatory system (mollusks)
- Know how an annelid performs respiration, excretion, response, movement and reproduction
- Know the three groups of annelids and characteristics of each
- Know how leeches are used for medicinal purposes
- Know why earthworms and marine annelids are so important

Section 4

- Vocabulary

Trochophore
Foot
Mantle

Shell
Visceral mass
Radula

Siphon
Open circulatory system

- Know the characteristics of a mollusk
- Know the four parts of the mollusk body plan
- Know how mollusks perform feeding, respiration, excretion, circulation, response, movement and reproduction
- Know the three groups of mollusks and characteristics of each
- Know why mollusks are so important and what new discoveries we are making about them