Name:Block:
Phylum Cnidaria
ollowing questions.
als with shinging tentacles clus around their mouth:
his phylum. Specialized cells and tissues. rodusa+) - Shinging Shructures called polys rechae to cyst cycle of chidarians. Provide an organism that is
ike 5 Nedusa - mofilet ped 5 Jelly fish - spends most of ifeaycle as modusa.
Gastrovascular - digestion Cavity
-Chastmoderm -Mesoglea -Epidermis - covers outer surface
como doin. Cotronoscular.
Gastroderm / Cavity -digestion
Sv Paus (1)
Mouth.

Use pgs. 564-569 to complete the following questions.
1. What is a chidarian? Soft boodied animals with shinging tentacles around their mouth:
2. List 3 general characteristics of this phylum.
2. List 3 general characteristics of this phylum. - vadial symmetry - specialized cells - vadial symmetry - specialized cells
3. Describe the 2 stages in the life cycle of chidarians. Provide an organism th
3. Describe the 2 stages in the life cycle of cnidarians. Provide an organism th
associated with each stage.
associated with each stage. 5 Polyp -sessile, pell 5 Medusa - motilized flowerlike 5 Medusa -
(5)-class Hydrozoa (2) Jelly Fish Sperk
r-Hydras
4. Label and color the following diagram.
(V) 1 lo -
Tentacle Gashovascular - digestion Cavity
O lahel
Gastroderm
(1) COLOUV Epidermis - covers outer Su
E PICKINITY CO.
way to
celle Rosins. Godrovascula
ce ne bou Gastrovascula Gastroderm Cavity
thick jellylike - digesti
thick jellylike - digesti material Mesogla - digesti
Epidamis
- CCMGAZ - CCMGAZ
Cuter Dillor
Tentacle mouth.
rentacle mouth.
food explicitly count be

5. a. What is a nematocyst?	F
- stinging structures	
b. Where are they located?	
c. Describe how a Cnidarian consumes its prey once caught.	ho.
tentacles push food through mouth in	110
13) Accordance by miller town there the rock ?	PINOMEN
upunto smaller pieces. Food fragments are t	ren
taken up by special cells in the gastrodium H	ndtougest
to by special cells in the destrodern the best formalism of symbiosis involving a Chidarian. Them further	1.
Photosynthetic protists grow inside the C	ellspt
2) the gastroderm. Profist uses coz and other in	onste
to make of and carbohydrates tiproteins	WHICH
to make oz and carbohydrates + proterns are released into the tissues of the Cni 7. Describe how Cnidarians perform the following functions:	Cariari.
a. Internal transport	
Diffusion	<i>~</i> .
b. Responding to the environment	مجد
- Simple nevel net nevous system not - Sensory cells that altect chamich - statocysts - ballance, ocelli - eyespot Movement	main,
(2) - sensory cells that object chamich	est-touch
c. Movement cysts-ballance, ocelli-eyespot	s, detect
-modusa.	ignit.
Jet propulsion - medusa.	
d. Reproduction	
Sexually Asexually	ducated
(2) - Medusa releases - Polyps reprobudding u	rew medusa)
Separate Perfilized, Forms lava	
8. Which life cycle stage is dominant in each of the following Chidarian classes:	•
a. Hydrozoa <u>POLYD. domina</u> nt b. Scyphozoa <u>Medusa domina</u> nt	((
c. Anthozoa Polu D. Only	
	()
in the second se	10
\cdot	

Sat

9. Describe the lifestyle of members of class hydrozoa. live in branching sessile colonies, specialized polyps perform different functions (feeding, reproduction, défence) 10. a. Identify this organism. Portugese man-of-war. b. What makes it so unique? Form floating colonies with Specialized Kinds of payps one payp forms a balloon like float. c. Do these organisms pose a danger to humans? Yes. They can string. 11. Label each of the stages in the life cycle of an Aurelia jelly. (Adult female) Medusas (Adult male)

argest 12. How large can jellyfish grow? 2m in diameter - 3.6 m diameter - 30 m long tentacles. Calcium Carbonate (Ca (Oz) 13. What is the skeleton of coral made of? 14. How does a coral reef grow? new polyps are produced by budding and more limostone is laid down 15. How large is the Great Barrier Reef? more than 2000 Km long, 80Km wide 16. Provide 3 roles Cnidarians play in their environment - symbiotic relationships = fish - provide homes for fish/animals - protection for Ash/animals.

Frigger

Interpreting Diagrams: Exploring the Main Ideas

Use the accompanying diagrams to answer the questions that follow.

1. Where on the body of a chidarian are these

structures located? <u>tentacles</u>

2. What occupies the region labeled A on the

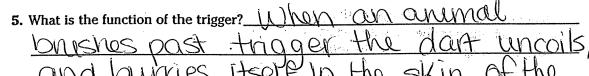
diagram? Straine

3. What is the structure labeled B?

4. Briefly describe the condition of the stinging

Briefly describe the condition of the stinging cell in Figure I.

Has not yet been triggered



animal.

6. What is the condition of the nematocyst in Figure II? What has happened?

Thas been triggered. An animal has touched the trigger and the "harpoon like" nemotrayst has shot out and that is why yousee:

Concept Mapping

The construction of and theory behind concept mapping are discussed on pages vii—ix in the front of this Study Guide. Read those pages carefully. Then consider the concepts presented in Section 26–3 and how you would organize them into a concept map, Now look at the concept map for Chapter 26 on page 258. Notice that the concept map has been started for you. Add the key facts and concepts you feel are important for Section 26–3. When you have finished the chapter, you will have a completed concept map.

Name	Class	Date	

Section 26-3

Cnidarians

(pages 564-569)

SECTION REVIEW

In this section you were introduced to the phylum Cnidaria. You discovered that cnidarians are soft-bodied animals with stinging tentacles arranged in circles around their mouths. Some familiar cnidarians include jellyfish, corals, and hydras.

You learned that all cnidarians exhibit radial symmetry and have specialized cells and tissues. You also learned that a typical cnidafian has an internal space called a gastrovascular cavity, in which digestion takes place.

You discovered that almost all cnidarians capture and eat small animals by using stinging structures called nematocysts, which are located on their tentacles. You also learned that cnidarians lack a centralized nervous system and muscle cells. There are, however, specialized epidermal cells that serve the same function as muscle cells.

In the last part of this section, you read about the three classes of cnidarians. You also learned how cnidarians fit into the world.

Applying Definitions: Building Vocabulary Skills

Most cnidarians have life cycles that involve two different body forms. Label each diagram below with the name of the correct body form. Then label both diagrams to show the following parts:

epidermis mesoglea gastroderm mouth gastrovascular cavity tentacle

