

Name: _____ Pledge: _____ Date: _____

**** YOU MAY NOT WORK IN PARTNERS ON THIS. ****

Marine Biology Chapter 6 Take-Home Test DUE Mon Feb 2, 2009

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question. Remember to read all choices before making a decision. Answers that cannot be read will be counted as incorrect.

- _____ 1. Which type of lophophorates have a shell with two parts or valves?
- a. bryozoans
 - b. lancelets
 - c. phoronids
 - d. lamp shells
- _____ 2. What are hermaphrodites?
- a. filter feeders that attach to rocks near the shoreline
 - b. individuals that contain both female and male gonads
 - c. a type of sponge that may form coral reefs
 - d. the first pair of legs on a crab, lobster or shrimp that help to sort food
- _____ 3. Feathers stars are an example of what type of echinoderm?
- a. sea cucumbers
 - b. sea urchins
 - c. crinoids
 - d. brittle seas
- _____ 4. Which type of segmented worms have parapodia?
- a. oligochaetes
 - b. polychaetes
 - c. leeches
 - d. peanut worms
- _____ 5. How do sea stars digest their food?
- a. they filter organic particles through their gills
 - b. they absorb nutrients through their tube feet
 - c. their radula chew the food before ingesting it
 - d. many extend their stomachs out of their mouths where the food is then digested
- _____ 6. What are zooids?
- a. planktonic organisms that are the exclusive food source for whales
 - b. minute interconnected individuals in a bryozoan colony
 - c. the cells that contain toxic chemicals in the tentacles of molluscs
 - d. an early larval stage resembling the tusk of a boar
- _____ 7. What are ganglia?
- a. clusters of nerve cells located in several parts of the body that act as “local brains”
 - b. specialized digestive glands located next to the suckers
 - c. planktonic species that abundant in tropical waters
 - d. the armor-like covering that protects the cephalothorax of lobsters
- _____ 8. What is the leathery or gelatinous covering that protects the body of a sea squirt?
- a. salps
 - b. coelomic fluid
 - c. pharynx
 - d. tunic

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- ___ 9. Which marine invertebrate has the ability to coordinate body colors with particular behaviors or moods?
- a. cuttlefish
 - b. sea slugs
 - c. octopuses
 - d. barnacles
- ___ 10. Tube feet are muscular extensions of a network of water-filled canals. What is this network called?
- a. madreporite
 - b. pedicellariae
 - c. water vascular system
 - d. hermit crabs
- ___ 11. Most echinoderms have pentamerous radial symmetry. What does that mean?
- a. their symmetry is based on five parts
 - b. they have five mouths
 - c. their aboral side contains five pincer-like organs that stick out
 - d. their symmetry is based on fifty parts
- ___ 12. What are the “living fossils” of molluscs that were thought to be extinct until 1952?
- a. cephalopods
 - b. chitons
 - c. tusks shells
 - d. monoplacophorans
- ___ 13. What must molt before an arthropod can grow?
- a. antennae
 - b. exoskeleton
 - c. isopod
 - d. maxillipeds
- ___ 14. Which type of arthropod is a filter feeder that usually lives attached to surfaces including living surfaces like whales and crabs?
- a. isopods
 - b. cuttlefish
 - c. fish lice
 - d. barnacles
- ___ 15. What marine arthropod aggregates in gigantic schools of billions and are the exclusive food source of whales, penguins and many types of fish?
- a. shrimp
 - b. krill
 - c. diatoms
 - d. amphipods
- ___ 16. Sand dollars are part of what marine invertebrate group?
- a. sea urchins
 - b. copepods
 - c. polychaetes
 - d. sea cucumbers
- ___ 17. What bloodsucking segmented annelid has a sucker at each end and no parapodia?
- a. leech
 - b. peanut worm
 - c. oligochaetes
 - d. polychaetes
- ___ 18. A Portuguese man-of-war is what type of cnidarian?
- a. hydrozoan
 - b. scyphozoan
 - c. anthozoan
 - d. annelid
- ___ 19. What is the unique feeding structure that lophophorates have?
- a. lophophore
 - b. tube feet
 - c. tongue
 - d. tentacles with suckers

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- _____ 20. What are pedicellariae?
- a. the central disk of an echinoderm that contains the central nervous system
 - b. muscular sacs within the tube feet that help in locomotion
 - c. a porous plate on the aboral side of the sea star
 - d. minute pincer-like organs on the aboral side of a sea star that help to keep the surface clean

Short Answer

Answer each question with complete sentences when necessary. Answers that cannot be read will be counted as incorrect.

21. What are arrow worms? Describe them briefly.

22. What is the difference between asexual and sexual reproduction?

23. What is the difference between an open and a closed circulatory system?

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24. What are the five types of anthozoans?

25. Describe the digestion of cnidarians. Be sure to mention what they eat and how they obtain their food.