

Invertebrate Quiz

1. Explain the difference between radial and bilateral symmetry in animals, and give an example of each type.
2. How does a sponge obtain food?
3. Compare the medusa and polyp forms of cnidarians.
4. How are corals different from other cnidarians?
5. Coral reefs are being destroyed at a rapid rate. What effect would you expect the destruction of a large coral reef to have on other ocean life?
6. A _____ is the name for an organism that has both male and female reproductive organs.
7. In _____, eggs and sperm meet inside an animal's body.
8. What adaptations make cephalopods effective predators?
9. Compare filter feeding with obtaining food by using a radula.
10. Polychaetes actively swim, burrow and crawl. How do parapodia support the active life that most polychaetes pursue?
11. Describe two features that are unique to arthropods.
12. What are the advantages and disadvantages of an exoskeleton?
13. Molting occurs when an arthropod sheds its old _____ and grows a new one.
14. When water passes over gills, _____ and _____ are exchanged.
15. How does a sea star move? Explain in terms of the water vascular system of echinoderms.
16. Describe the differences in symmetry between larval echinoderms and adult echinoderms.
17. How do the various defense mechanisms among the echinoderm classes help deter predators?
18. Describe four features of chordates.
19. How are invertebrate chordates different from vertebrates?
20. What features of chordates suggest that humans have more in common with sea squirts than lobsters?
21. An animal that is a filter feeder, takes in water through pores in the sides of its body, and releases water from the top is a _____.
 - a. Roundworm
 - b. Gastropod
 - c. Sponge
 - d. Lancelet
22. Nematocysts are unique to _____.
 - a. Sponges
 - b. Mollusks
 - c. Annelids
 - d. Cnidarians
23. Which of the following are invertebrate chordates?
 - a. Sea anemones
 - b. Lancelets
 - c. Bivalves
 - d. Squid

24. An octopus belongs to phylum Mollusca because it has a mantle, bilateral symmetry, two body openings and _____.
- a. An external shell
 - b. A muscular foot
 - c. A pseudocoelom
 - d. Segmentation
25. Which of the following characteristics is unique to arthropods?
- a. Nematocysts
 - b. Jointed appendages
 - c. Filter feeding
 - d. Tube feet