Bio-10-Q3W3--Arthropods-Test

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- 1. The fact that horseshoe crabs have remained relatively unchanged for 500 million years indicates that
 - a. their environment has changed very little.
 - b. they must reproduce by parthenogenesis.
 - c. natural selection has not taken place.
 - d. they have very little genetic diversity.
- 2. How many pairs of jointed appendages do arachnids have?
 - a. three c. two
 - b. six d. four
 - 3. Crabs, lobsters, shrimps, and pill bugs are members of the class _____.
 - a. Chilopoda b. Insecta
 - d. Arachnida
 - 4. What clue tells you immediately that the organism shown in Figure 28-4 is not an arthropod?

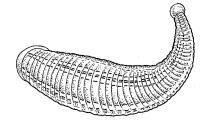


Figure 28-4

- a. it has no jointed appendages b. there are too many segments
- c. it has no endoskeleton
- d. its gas exchange is inefficient

holding food and injecting poison.

- 5. The appendages of a spider that function as sense organs are
 - a. its pedipalps.

b. its spinnerets.

c. its legs.

c.

c.

d.

c. Crustacea

d. its chelicerae.

d. chewing food.

the coelom

the endoskeleton

- 6. In spiders, chelicerae are highly modified appendages that are adapted for
 - a. mating and reproduction.
 - b. spinning silk and weaving webs.
 - 7. The characteristic that most distinguishes arthropods from other invertebrates is _____.
 - a. bilateral symmetry
 - b. jointed appendages
- 8. When a spider bites, it uses its _____.
 - a. mandibles
 - b. chelicerae
 - 9. Grasshoppers have _____.
 - a. three compound eyes and two simple eyes
 - b. two compound eyes and two simple eyes
 - c. two compound eyes and three simple eyes
 - d. none of these

- - pedipalps c.

 - d. silk glands

- 10. Aquatic arthropods exchange gases through _____
 - c. tracheal tubes a. book lungs
 - b. gills
- 11. An animal that is not a member of the class Arachnida is
 - a. a walking stick.
 - b. a dust mite.
 - 12. What clue tells you immediately that the organism shown in Figure 28-2 is not an arthropod?

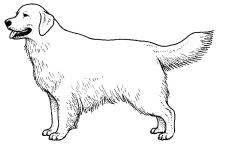


Figure 28-2

- a. it is warm blooded
- it has no open circulation system b.
- c. it has no jointed appendages
- d. it has no exoskeleton
- 13. After catching their prey and injecting it with poison, spiders
 - a. lay their eggs in the prey.

b. grows on top of its old one

- b. eat the prey whole.
- c. chew the prey into small pieces.
- d. suck up the prey's contents, which have been liquified with enzymes.
- 14. Before an arthropod molts, a new exoskeleton
 - a. must be found c. cannot grow
 - d. grows beneath its old one
- 15. What clue tells you immediately that the organism shown in Figure 28-3 is not an arthropod?

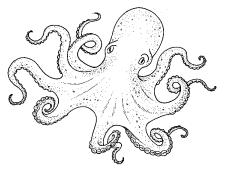


Figure 28-3

- a. it has more than 6 legs
- b. it cannot fly

- c. it doesn't molt
- d. it has no jointed appendages

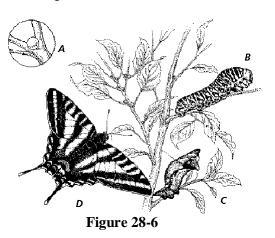
c. a deer tick.

d. a spider.

d. their exoskeleton

- 16. Most insects have one pair of _____ that are used to sense vibrations, food, and pheromones in the environment.
 - a. pedipalpsb. wings

- c. antennae
- d. eyes



17. In what stage of metamorphosis shown in Figure 28-6 does the organism have recognizable insect characteristics like three segments and jointed appendages?

	a. D	c.	C	
	b. B	d.	A	
 18.	What stage of metamorphosis shown in Figure 28-6 does the most eating take place?			
	a. B	c.	D	
	b. A	d.	C	
 19.	What stage of metamorphosis shown in Figure 28-6 contains the youngest organism?			
	a. B	c.	D	
	b. C	d.	A	
 20.	What type of metamorphosis is shown in Figure 28-6?			
	a. incomplete	c.	nymph	
	b. partial	d.	complete	
 21.	What stages of metamorphosis shown in Figure 28-6 have no exoskeleton?			
			A and B	
	b. B and C	d.	A and C	
 22.	What stage of metamorphosis shown in Figure 28-6 has characteristics of chilopoda and diplopoda?			
		c.	-	
	b. D	d.	В	
 23.	The stages of incomplete metamorphosis are			
			egg, larva, adult	
	b. egg, nymph, adult	d.	larva, pupa, adult	
 24.	The typical tick body consists of segment(s).			
			three	
	b. two	d.	one	
 25.	In spiders, the exchange of gases takes place in			
		c.	spiracles	
	b. book lungs	d.	gills	

- 26. In ticks and mites, the head, thorax, and abdomen
 - a. are well-defined.
 - are fused into one section. с. b. are all the same size.
 - d. are absent.
- 27. No one has ever seen a living trilobite. From this fossil picture in Figure 28-5, how can you tell it was an arthropod?



Figure 28-5

- a. it had segments
- b. it produced asexually

- c. it molted
- d. it had Malpighian tubules

Matching

Match each item with the correct statement below.

- a. mandible
- b. appendage
- c. spinneret
- d. pheromone
- e. tracheal tubes
- f. Malpighian tubule

- parthenogenesis g.
- h. spiracles
- i. book lung
- cephalothorax j.
- k. molting

- 28. openings through which air enters and leaves the tracheal tubes
- 29. chamber that contains leaflike plates that serve for gas exchange
- 30. movable structure used by a spider to turn silk into thread
- 31. any structure, such as a leg, that grows out of the body of an animal
- 32. chemical odor signal given off by an animal
- 33. jaw of an arthropod
- 34. shedding of the old exoskeleton
- 35. branching networks of hollow passages that carry air throughout the body
- 36. fused head and thorax region in some arthropods
- 37. form of asexual reproduction in which an organism develops from an unfertilized egg
- 38. excretory organ of terrestrial arthropods