Bio-10-Q3W3--Arthropods-H.W.

Multiple Choice

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

- 1. An animal that is not a member of the class Arachnida is
 - a. a deer tick.

d. none of these

c. a dust mite.

b. a spider.

d. a walking stick.

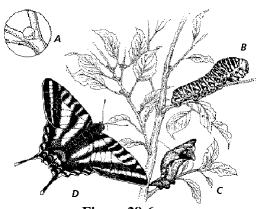


Figure 28-6

 ۷.	what type of metamorphosis is snown in Figur	e 28	5-0 ?
	a. incomplete	c.	nymph
	b. complete	d.	partial
 3.	What stage of metamorphosis shown in Figure	28-	6 has characteristics of chilopoda and diplopoda?
	a. C	c.	A
	b. D	d.	В
 4.	What stages of metamorphosis shown in Figure	e 28	-6 have no exoskeleton?
	a. A and C	c.	A and B
	b. B and C	d.	C and D
 5.	What stage of metamorphosis shown in Figure	28-	6 contains the youngest organism?
	a. A	c.	В
	b. C	d.	D
 6.	What stage of metamorphosis shown in Figure	28-	6 does the most eating take place?
	a. B	c.	C
	b. A	d.	D
 7.	In what stage of metamorphosis shown in Figu	re 2	8-6 does the organism have recognizable insect
	characteristics like three segments and jointed	арре	endages?
	a. C	c.	A
	b. B	d.	D
 8.	Grasshoppers have		
	a. two compound eyes and two simple eyes		
	b. three compound eyes and two simple eyes		
	c two compound eyes and three simple eyes		

9. What clue tells you immediately that the organism shown in Figure 28-2 is not an arthropod? Figure 28-2 it is warm blooded it has no jointed appendages it has no exoskeleton it has no open circulation system The fact that horseshoe crabs have remained relatively unchanged for 500 million years indicates that 10. they have very little genetic diversity. b. natural selection has not taken place. they must reproduce by parthenogenesis. d. their environment has changed very little. 11. In spiders, chelicerae are highly modified appendages that are adapted for a. holding food and injecting poison. chewing food. spinning silk and weaving webs. mating and reproduction. 12. In ticks and mites, the head, thorax, and abdomen are fused into one section. are absent. b. are all the same size. d. are well-defined. 13. In spiders, the exchange of gases takes place in a. spiracles c. lungs d. book lungs b. gills 14. The stages of incomplete metamorphosis are a. egg, nymph, adult c. larva, pupa, adult b. egg, larva, pupa, adult d. egg, larva, adult 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	c.	it doesn't molt
	b.	it has no jointed appendages	d.	it cannot fly
16.	6. The characteristic that most distinguishes arthropods from other invertebrates is			
	a.	the endoskeleton	c.	bilateral symmetry
	b.	the coelom	d.	jointed appendages

 17.	Aquatic arthropods exchange gases through		
	a. their exoskeleton	c.	gills
	b. book lungs	d.	tracheal tubes
18.	When a spider bites, it uses its		
	a. silk glands	c.	pedipalps
	b. chelicerae	d.	mandibles
19.	The typical tick body consists of segmen	nt(e)	
 1).	a. four	c.	three
	b. one		two
20			
 20.	Before an arthropod molts, a new exoskeleton		 must be found
	a. grows on top of its old oneb. cannot grow		
0.1	_		grows beneath its old one
 21.	How many pairs of jointed appendages do arac		
	a. three		four
	b. two	d.	
 22.	The appendages of a spider that function as ser		-
	a. its spinnerets.		its pedipalps.
	b. its legs.	d.	its chelicerae.
 23.	Most insects have one pair of that are us	sed to	o sense vibrations, food, and pheromones in the
	environment.		
	a. wings	c.	eyes
	b. antennae	d.	pedipalps
 24.	Crabs, lobsters, shrimps, and pill bugs are men	nbers	s of the class
	a. Arachnida	c.	Insecta
	b. Chilopoda	d.	Crustacea
25.	What clue tells you immediately that the organ	ism	shown in Figure 28-4 is not an arthropod?
	Figure 28-4		
	a. it has no jointed appendages	c.	its gas exchange is inefficient
	b. there are too many segments	d.	it has no endoskeleton
 26.	After catching their prey and injecting it with parameters. a. chew the prey into small pieces. b. lay their eggs in the prey. c. eat the prey whole.		
27	d. suck up the prey's contents, which have be		
 27.	No one has ever seen a living trilobite. From the arthropod?	ns to	ossil picture in Figure 28-5, how can you tell it was an

a. it produced asexuallyb. it had segments

c. it had Malpighian tubulesd. it molted

Matching

	Match each item with the correct statement belo	w.				
		g.	parthenogenesis			
	11 0	h.	spiracles			
	1	i.	book lung			
	=	j. k.	cephalothorax molting			
	f. Malpighian tubule	K.	moning			
• •						
	jaw of an arthropod					
	shedding of the old exoskeleton					
	excretory organ of terrestrial arthropods		in the overhout the hadr			
 31.	branching networks of hollow passages that carry					
-	chamber that contains leaflike plates that serve for gas exchange form of asexual reproduction in which an organism develops from an unfertilized egg					
34.	*					
-	openings through which air enters and leaves the tracheal tubes					
	movable structure used by a spider to turn silk into thread					
	fused head and thorax region in some arthropod					
38.	any structure, such as a leg, that grows out of the body of an animal					
	hether the statement is true or false. In arthropods, appendages are adapted for a variating.	iety	of purposes including sensing, walking, feeding, and			
40.		ons	sists of a double ventral nerve cord, an anterior brain, and			
41.	You might be more likely to see pill bugs moving	ng a	around out in the open on a rainy day than on a sunny one.			
42.	The exoskeleton of arthropods is harder and pro	vid	es more protection than the cuticle of annelids.			
 43.	The acute senses of arthropods are the result of	org	ans such as compound eyes and antennae.			
 44.	The legs of most crustaceans are unspecialized a	and	used only for walking.			
 45.	Jointed appendages are advantageous because the	ney	are limited in their strength and functions.			
46.	Having compound eyes on movable stalks is an could attack from almost any direction.	adv	vantage for aquatic crustaceans whose potential predators			
47.	The exoskeleton is a protective adaptation that e	enal	ples arthropods to move freely.			
 48.	Efficient gas exchange in arthropods is accomple	ish	ed by tracheal tubes, book lungs, or gills.			
49.	Arthropods have a well-developed excretory sys	sten	n consisting of nephridia.			
 50.	Both centipedes and millipedes have book lungs	s fo	r gas exchange.			