Bio.10-Q3W8-Q.3 Revision H.W

Multiple Choice

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

- 1. What is any drug that inhibits transmission of sensory impulses at a synapse called?
 - a. hallucinogen

c. depressant

b. stimulant

- d. neurotransmitter
- 2. Most insects have one pair of _____ that are used to sense vibrations, food, and pheromones in the environment.
 - a. eyes

c. pedipalps

b. antennae

d. wings

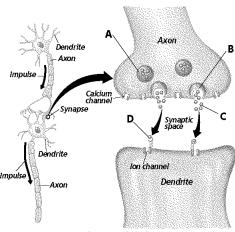


Figure 36-3

- 3. In which direction is the flow of calcium ions in Figure 36-3?
 - a. outside of myelin sheath
- c. towards axon

b. into synaptic space

- d. towards dendrite
- 4. Which part of Figure 36-3 is affected most by drugs?
 - a. B

c. C

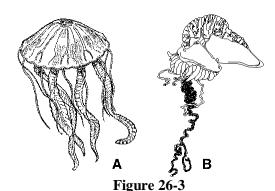
b. D

- d. A
- 5. Where do the neurotransmitters end up in Figure 36-3?
 - a. in the synaptic space

c. in the axon

b. outside of myelin sheath

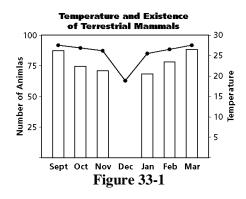
d. in the dendrite



- 6. How are the two organisms shown in Figure 26-3 different?
 - a. A is a cnidarian and B is not
- c. A is a medusa and B is a polyp colony

b. only B is poisonous

d. A moves but B doesn't



- 7. Which area of the world would be a poor choice to transplant the population shown in Figure 33-1?
 - a. Florida

c. Iceland

b. the Midwest

- d. Hawaii
- 8. What is the most likely reason for the dip in population shown in figure 33-1?
 - a. hibernation

c. sickness

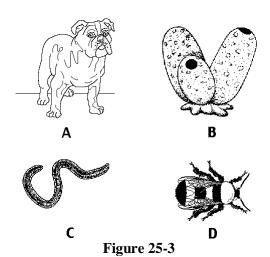
b. migration

- d. habitat destruction
- 9. Predict the population of the organisms shown in Figure 33-1 for February of the next year?
 - a. about 100

c. about 75

b. about 50

- d. almost zero
- 10. By age 20, a person's bones stop growing because _____
 - a. bone cells receive less oxygen and nutrients at that time
 - b. bone-forming cells are no longer present
 - c. less calcium is present in the body
 - d. hormones cause the growth centers at the ends of bones to degenerate



__ 11. Which of the organisms in Figure 25-3 probably has the most muscular control?

a. B

c. C

b. D

d. A

12. Which of the organisms in Figure 25-3 has the most complex systems developed from coelom?

a. C

c. A

b. I

d. B

13. Which of the organisms in Figure 25-3 has bilateral symmetry but no endoskeleton?

a. A

c. C

b. E

d. D

14. What clue tells you immediately that the organism shown in Figure 28-2 is not an arthropod?

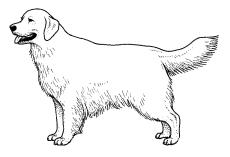


Figure 28-2

- a. it is warm blooded
 - b. it has no jointed appendages
- c. it has no exoskeleton
- d. it has no open circulation system
- 15. Aquatic arthropods exchange gases through _
 - a. tracheal tubes

c. book lungs

b. their exoskeleton

- d. gills
- 16. What is an effect of aging on the skin?
 - a. sagging

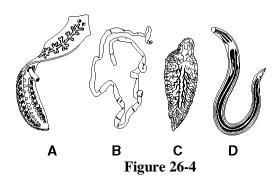
c. wrinkles

b. dryness

- d. all of these
- 17. Which of the following examples illustrates a pivot joint in use?
 - a. You wind up to pitch a baseball.
- c. You kick a football.

b. You look behind you.

d. You wave good-bye to a friend.



- _____ 18. Which organism shown in Figure 26-4 does not have hooks and suckers on its mouth?
 a. D c. B
 - a. D c. B b. C d. A
 - 19. Which organism shown in Figure 26-4 is a parasite that requires two hosts?
 - a. B b. A c. D d. C
 - 20. The collar cells of sponges are similar to _____.
 - a. amoebas c. sessile sporozoans
 - b. flagellated protists d. ciliated paramecia
 - 21. The skin regulates the temperature of the body on a hot day by _____
 - a. reducing access to the exterior c. constricting the blood
 - b. dilating blood vessels d. closing the pores

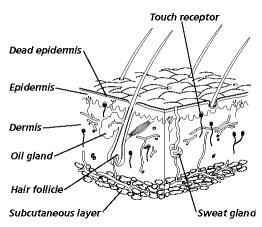


Figure 34-2

- 22. Which portion of skin shown in Figure 34-2 changes when you get a suntan?
 - a. dermis

c. epidermis

b. dead epidermis

- d. subcutaneous layer
- 23. Which portion of skin shown in Figure 34-2 is where a pimple forms?
 - a. oil gland

c. subcutaneous layer

b. sweat gland

- d. hair follicle
- 24. Which of the following are activities of drugs in the nervous system?
 - a. decreased neurotransmitter activity at a synapse
 - b. increased neurotransmitter activity at a synapse
 - c. alteration of pain or mood
 - d. all of these

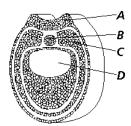


Figure 29-3

- 25. The notochord shown in Figure 29-3 is surrounded on two sides by what?
 - a. endoderm

c. exoderm

b. ectoderm

- d. mesoderm
- _ 26. Identify the notochord in Figure 29-3.
 - a. A

c. C

b. D

- d. B
- 27. Crabs, lobsters, shrimps, and pill bugs are members of the class _____
 - a. Crustacea

c. Insecta

b. Chilopoda

d. Arachnida

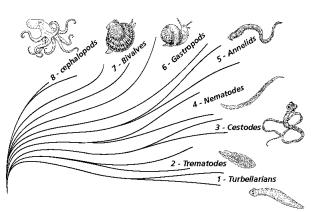


Figure 27-5

- 28. According to Figure 27-5, which phylum are annelids closest to on an evolutionary scale?
 - a. cestodes

c. bivalves

b. nematodes

- d. gastropods
- 29. According to Figure 27-5, which phylum evolved first?
 - a. annelids

c. planaria

b. bivalves

d. nematodes

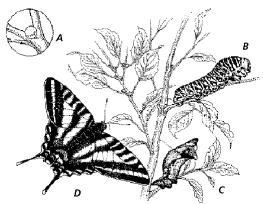


Figure 28-6

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ou.	vv nat s	stage or	metamorbi	10818	SHOWH	ш	riguie	20-U	Comanis	me voungest	. Organism :

a. B

c. D

). (

1. A

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

a. A

c. D

b. C

d. B

32. What stage of metamorphosis shown in Figure 28-6 does the most eating take place?

a. B

c. D

b. C

d. A

33. What stage of metamorphosis shown in Figure 28-6 has characteristics of chilopoda and diplopoda?

a B

c. C

b. A

d. D

34. What clue tells you immediately that the organism shown in Figure 28-3 is not an arthropod?

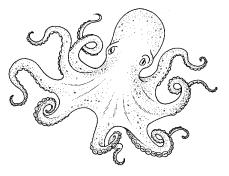


Figure 28-3

a. it doesn't molt

c. it has no jointed appendages

b. it has more than 6 legs

- d. it cannot fly
- 35. Which of these is an example of imprinting?
 - a. A bird makes a nest of grasses and twigs.
 - b. A chimpanzee searches for a longer pole to reach for a distant fruit.
 - c. Your cat rubs against your ankles when you open a can of cat food.
 - d. Young ducklings follow their mother.

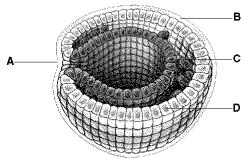
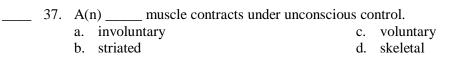


Figure 25-2

36. In Figure 25-2, where is the endoderm?a. Bb. D

c. C d. A



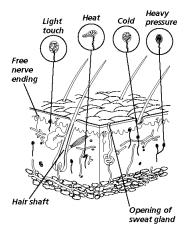


Figure 36-5

 38.	. Why are the heat sensors located just under the epidermis in Figure 36-3?						
	a. because heat isn't damaging to nerves	c.	so heat can be easily ignored				
	b. so heat can be sensed fast	d.	because heat is hard to sense				
 39.	Why is the heavy pressure sensor located wher	e it i	s shown in Figure 36-5?				
	a. because heavy pressure is really only felt in the epidermis						
	b. because heavy pressure is more damaging than light pressure						
	c. because heavy pressure must push lower in the skin						
d. because heavy pressure is not that important							
 40.	A group of cnidarians that provide food and sh	elter	for many kinds of animals are the				
	a. jellyfishes	c.	sea anemones				
	b. corals	d.	hydras				
 41.	Uncooked or undercooked pork may contain _		:				
	a. pinworms	c.	hookworms				
	b. free-living roundworms	d.	trichina worms				
 42.	The animal's digestive tract forms from the	·					
	a. ectoderm	c.	mesoderm				
	b. protostome	d.	endoderm				
 43.	Which of the following is NOT an example of	the 1	use of a pheromone?				
	a. Hyenas give off an odor that keeps different clans of hyenas apart.						
	b. Poisonous snakes wind around each other and butt heads.						
	c. Wolves mark their territories by urinating at the boundaries.						
	d. The skunk releases a rotten odor when it is threatened.						

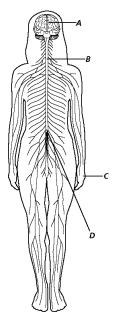


Figure 36-2

44. What is the path of a reflex impulse in Figure 36-2?

a. C-B-A-B-C

c. C-B-C

b. C-A-C

d. C-D-C

45. Which of these animals has bilateral symmetry?

a. jellyfish

c. flatworm

b. hydra

d. sponge

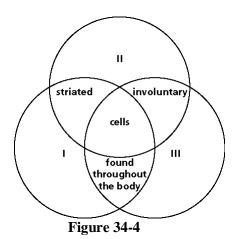
46. When a bird sings to signal others of the same species to keep away, it is showing signs of _____.

a. cheerfulness

c. aggression

b. courtship behavior

d. conditioning



47. Which type of muscle is labeled II in the Venn diagram shown in Figure 34-4?

a. cardiac

c. skeletal

b. filament

d. smooth

48. Which type of muscle is labeled I in the Venn diagram shown in Figure 34-4?

a. smooth

c. skeletal

b. cardiac

d. filament

- 49. After suffering widespread third-degree burns, the burn victim _____.

 a. has slight damage to cells of the dermis
 b. recovers in a short time
 c. is unlikely to incur bacterial infection
 d. has a harder time regulating body temperature

 50. For trial-and-error learning to take place, an animal receives ____.
 a. a reward for a particular response c. habituation
 - b. a dose of imprinting d. conditioning

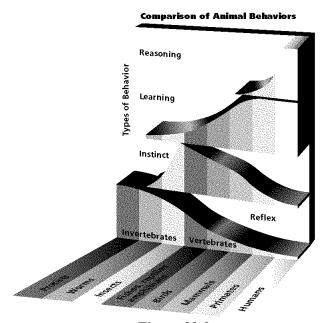


Figure 33-2

51. According to Figure 33-2, which animal would be most likely to solve a problem? planaria a. rat shark b. ostrich 52. Alcohol may act on the CNS by _ a. blocking the movement of sodium and calcium ions across the cell membrane b. increasing oxygen content c. speeding up the movement of sodium and calcium ions d. increasing anxiety 53. Which of the following applies to a sponge? a. intracellular digestion develops three embryonic layers b. has a gastrula stage bilateral symmetry 54. Which type of muscle makes up the heart? a. skeletal smooth b. cardiac d. all of these

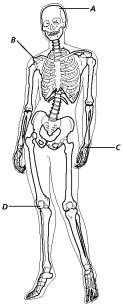


Figure 34-3

____ 55. Which joints in Figure 34-3 do not move?

a. D

b. C

c. B

d. A

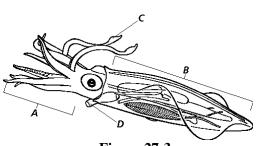


Figure 27-3

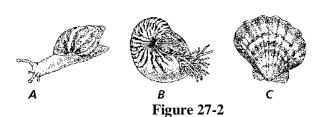
56. Which part of the squid shown in Figure 27-3 is analogous to a snail's shell?

a. *P*

c. D

b. C

d. B



57. Which shell shown in Figure 27-2 is from a bivalve?

a. C

c. B

b. A

d. none of them

58. The stages of incomplete metamorphosis are _

a. egg, nymph, adult

c. egg, larva, pupa, adult

b. larva, pupa, adult

d. egg, larva, adult

	59.	The typical tick body consists of segment(s).					
		a. three c. four					
		b. one d. two					
	60.	The is the area of the brain that controls involuntary activities,, such as breathing and heart rate.					
		a. hypothalamus c. cerebrum					
		b. cerebellum d. medulla oblongata					