## Bio-10-Q3W7-Nervous System- H.W

## **Multiple Choice**

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

1. Which part of the brain controls conscious activities, memory, language, and the senses?

a. thalamus

c. medulla oblongata

b. cerebellum

d. cerebrum

2. The \_\_\_\_\_ is the area of the brain that controls involuntary activities,, such as breathing and heart rate.

a. medulla oblongata

c. hypothalamus

b. cerebrum

d. cerebellum

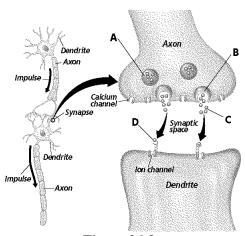


Figure 36-3

\_\_\_\_ 3. Which part of Figure 36-3 is affected most by drugs?

a. A

c. D

b. B

d. C

4. Where do the neurotransmitters end up in Figure 36-3?

a. in the axon

c. outside of myelin sheath

b. in the synaptic space

d. in the dendrite

5. In which direction is the flow of calcium ions in Figure 36-3?

a. towards axon

c. towards dendrite

b. into synaptic space

d. outside of myelin sheath

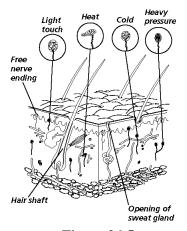


Figure 36-5

6. Why is the heavy pressure sensor located where it is shown in Figure 36-5? a. because heavy pressure is not that important b. because heavy pressure must push lower in the skin because heavy pressure is more damaging than light pressure because heavy pressure is really only felt in the epidermis 7. Why are the heat sensors located just under the epidermis in Figure 36-5? a. because heat is hard to sense c. so heat can be sensed fast b. so heat can be easily ignored d. because heat isn't damaging to nerves 8. If the semicircular canals in one of your ears were damaged, you might a. lose your sense of balance. b. lose your sense of rhythm. c. lose your ability to hear low-frequency sounds. d. lose your ability to coordinate your neck muscles. Sensory neurons can a. process incoming impulses and pass them on to motor neurons b. carry response impulses away from the brain and spinal cord c. carry impulses across synapses d. carry impulses from outside and inside the body to the brain and spinal cord 10. Cocaine is a stimulant because it \_\_\_\_\_. a. relieves anxiety

b. causes levels of neurotransmitters in the brain to increase

c. causes blood pressure to dropd. causes heart rate to slow down

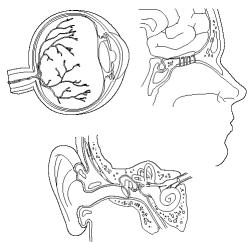


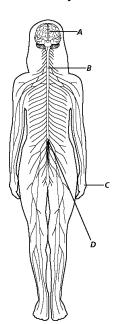
Figure 36-4

- 11. Where is the nerve located in all the organs shown in Figure 36-4?
  - a. near the surface

c. relatively deep in the body

b. in the skin

- d. in different places
- 12. What is the possible explanation for the location of the nerves in Figure 36-4?
  - a. so they can feel the outside air
- c. so they are protected
- b. so they can be near the stimulus
- d. so they will be closer to the brain



**Figure 36-2** 

- \_\_\_\_ 13. What is the path of a reflex impulse in Figure 36-2?
  - a. C-D-C

c. C-B-C

b. C-A-C

- d. C-B-A-B-C
- \_\_ 14. What is the path of a voluntary impulse in Figure 36-2?
  - a. C-B-C

c. C-B-A-B-C

b. C-D-C

d. C-A-C

\_\_\_\_ 15. What labeled part of Figure 36-2 is not part of the peripheral nervous system?

		<b>D</b>		D		
		a. D	c.			
		b. C	d.	<del>-</del>		
	16.	You can see the colors in a picture because y				
		a. cones of the retina		left visual field		
		b. rods of the retina		right visual field		
	17.	Sound waves are converted into nerve impul		_		
		a. malleus.	c.	ear canal.		
		b. cochlea.	d.	optic nerve.		
18. What is any drug that inhibits transmission of sensory imput						
		a. depressant	c.	neurotransmitter		
		b. hallucinogen	d.	stimulant		
	19.	<i>y</i>				
		a. increasing oxygen content				
		b. blocking the movement of sodium and ca	alcium	ions across the cell membrane		
		c. increasing anxiety				
		d. speeding up the movement of sodium an	d calci	um ions		
	20.	Which of the following are activities of drug	s in the	e nervous system?		
		a. decreased neurotransmitter activity at a synapse				
		b. alteration of pain or mood	• •			
		c. increased neurotransmitter activity at a s	ynapse			
		d. all of these				
	21.	A nerve impulse travels from one cell to another by passing from				
		a. one dendrite to another dendrite	c.			
		b. one axon to another axon	d.	one axon to a dendrite		
	22.					
		The malleus, incus, and stapes are found in tallian inner ear.	c.	middle ear.		
		b. outer ear.	d.	eardrum.		
	23.	Your senses of hearing and touch both depend on nerve impulses being generated by				
		a. sound waves.	c.			
		b. electrical stimulation.	d.	a change in temperature.		
	24.	In the skin of your fingertips, you might expe	ect to f	and receptors for		
		a. pressure.		pain.		
		b. touch.	d.	<u>*</u>		
	25.	A person who is addicted to a drug is experie	encing	withdrawal when he or she		
		a. becomes ill after stopping its use	8			
		b. feels better when stopping its use				
		c. needs more of the drug to achieve the sa	me eff	ect		
		d. needs to take the drug more often				
	26.	A(n) is any drug that speeds up the ac	tivities	s of the nervous system.		
		a. depressant	c.	antibiotic		
		b. stimulant	d.	addictive drug		

## Matching

		Match each item with the correct staten	nent below.				
		a. tolerance	h.	depressant			
		b. reflex	i.	hallucinogen			
		c. neurotransmitters	j.	medulla oblongata			
		d. synapse	k.	cochlea			
		<ul><li>e. addiction</li><li>f. semicircular canals</li></ul>	l.	axon			
		g. narcotic		rods retina			
	27.	Chemicals that diffuse across the synapse and stimulate polarity changes in a neuron					
	28.						
		Psychological and physical dependence on drugs					
		Automatic response to a stimuli					
		Fluid-filled, snail-shaped structure in the inner ear					
		Layer of nerve tissue made up of sensory neurons that respond to light					
	33. 34.	Any drug that slows down the activities of the CNS					
	35.	1					
		Controls involuntary activities such as breathing and heart rate					
		Light receptors adapted for vision in dim light					
		Drug that affects the CNS, altering moods, thoughts, and sensory perceptions					
	υ,.	must travel	,,, o,,, w,,,,	The second of th			
	40.	Medicine that relieves pain and causes	sleep				
True	/False						
		ether the statement is true or false.					
	41.	On a bright sunny day, the cones in you	r eyes play	a greater role in your sense of sight than the rods.			
	42.	Only the left hemisphere of the brain is involved in the sense of sight.					
	43.	When you are looking at an object, each of your eyes sees the object from the same perspective.					
	44.	The retina contains two types of light receptor cells.					
	45.	The senses of taste and smell are closely linked.					
	46.	The lens in the eye controls the amount of light that strikes the retina.					
	47.	Impulses coming from sensory receptor cerebrum.	s in your no	se and mouth are interpreted as odors and tastes by the			