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Chapter 2: The Anatomy and Evolution of the Nervous System

MULTIPLE CHOICE

1.	Structures located rela. rostral.b. caudal.	atively	toward the tail	of a c. d.	a fou dor ver	ur-legged anima sal. ntral.	al are re	ferred to as
	ANS: B OBJ: 2.1	PTS: KEY:	1 Factual	D	IF:	2	REF:	Page 27
2.	Structures located rel a. rostral. b. caudal.	atively	toward the bel	ly o c. d.	f a f dor ver	our-legged anii sal. ntral.	nal are	referred to as
	ANS: D OBJ: 2.1	PTS: KEY:	1 Factual	D	IF:	2	REF:	Page 27
3.	A dog's ears are a. rostral b. caudal		relative to its	tail c. d.	dor ver	rsal ntral		
	ANS: A OBJ: 2.1	PTS: KEY:	1 Factual	D	IF:	2	REF:	Page 27
4.	Which of the following a. ventral—superior b. dorsal—inferior	ng pairs	of terms mean	n the c. d.	e sar ros cau	ne thing? tral—anterior ıdal—ipsilatera	1	
	ANS: C OBJ: 2.1	PTS: KEY:	1 Factual	D	IF:	2	REF:	Page 27
5.	An imaginary line that the a midline	at runs t	he length of th	e sp	oinal ner	cord to the fro	nt of th	e brain is known as
	b. proximal.			d.	pla	ne of section.		
	ANS: C OBJ: 2.1	PTS: KEY:	1 Factual	D	IF:	2	REF:	Page 27
6.	A person's hand is a. proximal b. distal		relative to 1	his o c. d.	or he cor ips	er elbow. ntralateral ilateral		
	ANS: B OBJ: 2.1	PTS: KEY:	1 Factual	D	IF:	2	REF:	Page 28
7.	Two structures on op a. proximal. b. distal.	posite s	ides of the mic	dline c. d.	e are ips cor	e referred to as ilateral.		

ANS: D	PTS:	1 D	IF: 2	REF:	Page 28
OBJ: 2.1	KEY:	Factual			
Your right arm is		to your right leg	5.		
a. proximal		с.	contralateral		

b. distal		d. ipsilateral				
ANS: D	PTS: 1	DIF: 2	REF: Page 28			
OBJ: 2.1	KEY: Factual	MSC: New				

9. The nerve fibers that originate in the cerebral cortex and control movement cross the midline just above the junction of the medulla and spinal cord. As a result, these fibers provide input to ______ structures of the body, or structures that are on the ______ side of the midline as the cortical cells providing their motor input.

a. b.	ipsilateral; same contralateral; opp	teral; same c. ipsilateral; opposite alateral; opposite d. contralateral; same PTS: 1 DIF: 3 REF: 1 1 KEY: Factual MSC: New			
AN OB	IS: B J: 2.1	PTS: 1 KEY: Factual	DIF: 3 MSC: New	REF:	Page 28

10. The neuraxis runs in a straight line

8.

- a. parallel to the ground in four-legged animals and humans.
- b. perpendicular to the ground in four-legged animals and humans.
- c. parallel to the ground in four-legged animals but makes a 90 degree turn in the brains of humans.
- d. parallel to the ground in humans but makes a 90 degree turn in the brains of four-legged animals.

ANS:	С	PTS:	1	DIF:	2	REF:	Page 28
OBJ:	2.1	KEY:	Factual	MSC:	New		

- 11. Researchers investigating appetite distinguish between the roles played by the ventromedial hypothalamus and the lateral hypothalamus. Where are these two structures located relative to one another?
 - a. The lateral hypothalamus is contralateral to the ventromedial hypothalamus.
 - b. The lateral hypothalamus is rostral to the ventromedial hypothalamus.
 - c. The lateral hypothalamus is closer to the midline than the ventromedial hypothalamus.
 - d. The ventromedial hypothalamus is located closer to the midline than the lateral hypothalamus.

ANS:	D	PTS:	1	DIF:	1	REF:	Page 28
OBJ:	2.1	KEY:	Application	MSC:	New		

- 12. The superior and inferior colliculi are located in the midbrain. Where are these two structures located relative to one another?
 - a. The superior colliculi are located above the inferior colliculi.
 - b. The superior colliculi are located below the inferior colliculi.
 - c. The superior colliculi are closer to the midline than the inferior colliculi.
 - d. The superior colliculi are farther away from the midline than the inferior colliculi.

	ANS: A OBJ: 2.1	PTS: 1 KEY: Application	DIF: 1 MSC: New	REF:	Page 28
13.	The anterior cingulat (PCC). a. behind b. in front of	e cortex (ACC) is loca	nted the pos c. below d. above	terior c	ingulate cortex
	ANS: B OBJ: 2.1	PTS: 1 KEY: Application	DIF: 1 MSC: New	REF:	Page 28
14.	Most of the neural in hemisphere. In other a. proximal b. distal	put to your left eyebro words, your eyebrow	w originates in the mot receives input from the c. contralateral d. ipsilateral	tor corte	ex of the left hemisphere.
	ANS: D OBJ: 2.1	PTS: 1 KEY: Application	DIF: 2 MSC: New	REF:	Page 28
15.	Planes of section that sections.a. sagittalb. coronal	t divide the brain paral	lel to the midline are k c. horizontal d. axial	nown as	S
	ANS: A OBJ: 2.1	PTS: 1 KEY: Factual	DIF: 1	REF:	Page 28
16.	Researchers who wis section.	hed to view a structure	e from the top of the he	ad wou	ld use a
	a. sagittal b. coronal		c. horizontald. midsagittal		
	ANS: C OBJ: 2.1	PTS: 1 KEY: Factual	DIF: 2	REF:	Page 28
17.	Early computerized t perspective, the axial sections that are a. perpendicular; fro b. perpendicular to t c. parallel to the mid d. parallel to the gro	omography (CT) equip or horizontal section. to the ground, ont to back the ground, dividing th dline, dividing the brai	pment could take image This means that the res dividing the brain from he brain from side to side in from side to side. n from top to bottom.	es from sulting i de.	only one images were from
	ANS: D OBJ: 2.1	PTS: 1 KEY: Factual	DIF: 2 MSC: New	REF:	Page 28
18.	In order to assess the Weinberger has decident plane of section that a. perpendicular to the	size of the lateral ven ded to use a coronal or is the ground, dividing th	tricles in patients with s frontal section. In othe	schizop er words ack	hrenia, Dr. s, he is looking at a

a. perpendicular to the ground, dividing the brain from front to backb. perpendicular to the ground, dividing the brain from side to side.

- c. parallel to the midline, dividing the brain from side to side.
- d. parallel to the ground, dividing the brain from top to bottom.

ANS:	А	PTS: 1	DIF: 2	REF:	Page 28
OBJ:	2.1	KEY: Factual	MSC: New		

19. The correct ordering of the layers of the meninges from the skull to the brain is:

- a. pia mater, arachnoid layer, dura mater.
- b. arachnoid layer, pia mater, dura mater.
- c. dura mater, pia mater, arachnoid layer.
- d. dura mater, arachnoid layer, pia mater.

ANS:	D	PTS:	1	DIF:	1	REF:	Page 28
OBJ:	2.1	KEY:	Factual				

20. You just heard about a friend who has a tumor on the meninges of her right temporal lobe. This means that the tumor is ______ to the midline of the brain.

a. contralateralb. medial		c. ventral d. lateral				
ANS: D OBJ: 2.1	PTS: 1 KEY: Application	DIF: 1	REF: Page 28			

- 21. Given the fact that the motor cortex controls movement of contralateral body parts, if your grandfather experiences damage to his right hemisphere motor cortex due to a stroke, it is likely that he will
 - a. not be able to walk at all because he will be paralyzed from the waist down.
 - b. have some paralysis in the left side of his body.
 - c. not be able to understand anything you say to him.
 - d. have some paralysis on the right side of his body.

ANS:	В	PTS:	1	DIF:	2	REF:	Page 28
OBJ:	2.1	KEY:	Conceptual				

22. Your cat always walks up to you and wants you to pet it on its ______ surface, but your dog lies on its back and presents its ______ surface for you to scratch.
a. ventral; dorsal
c. rostral; caudal

b. dorsal; ventral		d. caudal; rostral		
ANS: B OBJ: 2.1	PTS: 1 KEY: Conceptu	DIF: 2 ual	REF:	Page 28

23. A subdural hematoma is a "bruise" that often occurs following a head injury. Given your knowledge of anatomical terms, which of the following is the likely location of this type of injury?

a. the s	scalp			c.	the	lateral ventric	les	
b. the i	meninges			d.	the	central canal	of the sp	inal cord
ANS: 1	В	PTS:	1	DI	F:	2	REF:	Page 29
OBJ: 2	2.2	KEY:	Conceptual	MS	SC:	New		

24.	Which skull be a. pia b. dur	of the mening ones? mater ra mater	es is de	scribed as a lea	athe c. d.	rlike arao sub	tissue that foll chnoid layer arachnoid space	lows the	e contours of the
	ANS: OBJ:	B 2.2	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 29
25.	Which a. pia b. pia c. pia d. ara	layers of the n mater, arachno mater only mater and dur chnoid layer an	neninge oid laye a mater nd dura	s are found in r, and dura ma only mater only	the ster	perij	oheral nervous	system'	?
	ANS: OBJ:	C 2.2	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 30
26.	The sul a. pia b. dur	barachnoid spa mater. a mater.	nce is fo	ound between t	he a c. d.	rach sku late	noid layer and ll bones. ral ventricles.	the	
	ANS: OBJ:	A 2.2	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 30
27.	Cerebra a. me b. sub	ospinal fluid ((ninges. parachnoid space	CSF) is	produced by the	he c. d.	cho ven	roid plexus. tricles.		
	ANS: OBJ:	C 2.2	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 30
28.	Cerebra a. cen b. per c. late d. ven	ospinal fluid ((atral and periph ipheral nervou eral ventricles o atricles, subara	CSF) ma neral ner s syster only. chnoid	ay be found in rvous systems. n only. space, and cen	the	cana	al of the spinal	cord.	
	ANS: OBJ:	D 2.2	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 30
29.	The pri a. nou b. cus c. rem d. pro	imary purpose urish the cells of hion or "float" nove toxins fro wide circulatio	of cerel of the br the we om the b n for ch	brospinal fluid rain. ight of the bra prain. nemical messer	in.	SF) i s.	s to		
	ANS: OBJ:	B 2.2	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 30

30. A friend calls and says his child has just come down with a fever. When the child bends her head forward she screams in pain. The parent asks you what to do. Given what you have read in this chapter, what would you suggest?

- a. Have the child lie down; she'll probably be fine.
- b. Call the pediatrician in the morning.
- c. Get the child immediately to the nearest hospital, as the symptoms sound very much like meningitis. You may be wrong, but it's not worth taking the chance.
- d. The child probably has a brain tumor and should see a neurologist.

ANS:	С	PTS:	1	DIF:	1	REF:	Page 30
OBJ:	2.2	KEY:	Application				

31. The blood supply to the brain is provided by the

a. ca b. su	rotid and verteb bclavian and ax	oral arteries. illary arteries.	c. d.	celi aor	ac artery. ta.		
ANS: OBJ:	A 2.2	PTS: 1 KEY: Factual	DI	IF:	2	REF:	Page 31



32.

This figure illustrates the circulation of

- a. blood through the brain and spinal cord.
- b. cerebrospinal fluid between the meninges and the upper layer of cortex.
- c. cerebrospinal fluid through the ventricles, the central canal of the spinal cord, and in the subarachnoid space.
- d. cerebrospinal fluid, from its manufacture in the subarachnoid space into the ventricles and central canal of the spinal cord.

ANS: C (See Figure 2.5b)

PTS:	1	DIF:	2	REF:	Page 31	OBJ:	2.2
KEY:	Factual	MSC:	New				

33. A condition that results when the circulation of cerebrospinal fluid (CSF) is blocked is known as

a. hydrocephalus.b. meningioma.		c. meningitis.d. septicemia.		
ANS: A OBJ: 2.2	PTS: 1 KEY: Factual	DIF: 1	REF:	Page 31

- 34. If you go to the doctor with a fever, horrible headache, and a stiff neck, why might the doctor suggest a spinal tap?
 - a. A spinal tap will tell if you have a brain tumor.
 - b. The cerebrospinal fluid (CSF) may tell the doctor if there is any evidence of meningitis or encephalitis.
 - c. The cerebrospinal fluid (CSF) is the same as the blood supply, and the doctor can tell if you have an infection.
 - d. The cerebrospinal fluid (CSF) is the only way the doctor can tell if you are on drugs.

ANS:	В	PTS:	1	DIF:	2	REF:	Page 31
OBJ:	2.2	KEY:	Application				

- 35. Why would your doctor want to do a spinal tap if she suspected that you had an infection of the brain?
 - a. Because the cerebrospinal fluid (CSF) of the spinal cord is continuous with the cerebrospinal fluid (CSF) of the brain.
 - b. Because the spinal cord is part of the central nervous system.
 - c. Because the peripheral and central nervous systems are connected.
 - d. She wouldn't do a spinal tap because the spinal cord is made of different kinds of neurons than the brain.

ANS:	А	PTS:	1	DIF:	2	REF:	Page 31
OBJ:	2.2	KEY:	Conceptual				

36. Which of the following is found in the peripheral nervous system?

a. the corpus ca	allosum	c. the sympathetic nervous system					
b. the red nucle	eus	d. the central car	nal				
ANS: C	PTS: 1	DIF: 2	REF: Page 33				
OBJ: 2.2	KEY: Factual	MSC: New					

- 37. Which of the following statements is correct?
 - a. The central nervous system is encased in bone, but has no cerebrospinal fluid.
 - b. The peripheral nervous system is encased in bone, but has no cerebrospinal fluid.
 - c. The peripheral nervous system is encased with bone and is bathed with

cerebrospinal fluid.

d. The central nervous system is encased with bone and is bathed with cerebrospinal fluid.

	110101							
	ANS: D OBJ: 2.2	PTS: KEY:	1 Factual	DI MS	F: SC:	2 New	REF:	Page 33
38.	The spinal cord exter a. down the entire le b. down about two-t c. about halfway do d. about a third of th	nds ength hirds th wn the l ne way o	of the v e length length lown the length	verte	ebral	column.		
	ANS: B OBJ: 2.3	PTS: KEY:	1 Factual	DI	F:	3	REF:	Page 33
39.	Running down the ce a. subarachnoid spa b. fourth ventricle.	enter of t	the spinal cord	is tl c. d.	ne cen spii	tral canal. nal ventricle.		
	ANS: C OBJ: 2.3	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 33
40.	The region consisting division of the spinal a. sacral b. lumbar ANS: D OBI: 2.3	g of the cord.	head, neck, and	d arı c. d. DI	ns i tho cer F:	s served by ner racic vical 1	ves exit REF:	ting the Page 34
41.	The correct order of t a. cervical, thoracic b. cervical, lumbar, c. thoracic, cervical d. cervical, thoracic	the spina , lumbar thoracic , lumbar , lumbar	al divisions fro r, sacral, coccy c, sacral, coccy r, sacral, coccy r, coccygeal, sa	m ro geal geal geal icral	ostra . . .	al to caudal is:		
	ANS: A OBJ: 2.3	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 34
42.	A thoracic surgeon of the structures located a. neck b. torso	perates : in the	in the vicinity	of th c. d.	ne th low gen	oracic division er back itals and legs	of the	spinal cord; that is,
	ANS: B	PTS:	1	DI	F:	2	REF:	Page 34

43. As a result of an accident that occurred while playing football, Michael must wear a device known as a cervical collar until his injuries heal. Based on this information, we know that Michael injured his

MSC: New

a. shoulder c. neck

KEY: Factual

OBJ: 2.3

	b. kno	ee			d.	low	ver back		
	ANS: OBJ:	C 2.3	PTS: KEY:	1 Application	DI M	IF: SC:	2 New	REF:	Page 34
44.	Julie's is likel a. neo b. up	physician tells y that Julie sou ck per back	s her tha ight mee	t she damaged dical advice du	a d ie to c. d.	isk i pai sho low	n the lumbar re n she experiend ulder ver back	egion of ced in h	`her spinal cord. It er
	ANS: OBJ:	D 2.3	PTS: KEY:	1 Application	DI M	IF: SC:	2 New	REF:	Page 34
45.	$\frac{\text{Spinal}}{2}$	neurons that p of the spi	ass mot nal cord	or information l.	to t	the b	ody's muscles	may be	found in
	b. the	dorsal horns			d.	bot	h the dorsal and	d ventra	ll horns
	ANS: OBJ:	C 2.3	PTS: KEY:	1 Factual	DI	IF:	3	REF:	Page 34
46.	Axons a. the b. the c. bot d. the	carrying sense ventral white dorsal white r th the ventral a lateral white r	ory informatter of the matter	rmation to the of the spinal co f the spinal con al white matter f the spinal con	brai ord. od. of of	n ma the s nly.	ay be found in		
	ANS: OBJ:	B 2.3	PTS: KEY:	1 Factual	DI	IF:	2	REF:	Page 34
47.	The kr known a. wit b. pos	ee jerk reflex, as a thdrawal stural	in whic reflex	h your foot kic x.	c. d.	n re pate pol	sponse to a tap ellar ysynaptic	on you	r knee, is also
	ANS: OBJ:	C 2.3	PTS: KEY:	1 Factual	DI	F:	1	REF:	Page 34
48.	You've what y a. Th b. Th c. De any d. De any	e just heard tha ou've learned i e person will b pending on ho ything from arc pending on ho ything from arc	t someo n this cl e totally w sever ound the w sever ound the	ne's spinal con napter, which of paralyzed fro paralyzed fro the injury, th waist down. the injury, th chest down.	rd ha of th m tl m ju e pe e pe	as be ne fo he ne ust b erson	een injured at L llowing will lik eck down. elow the arms. may be unable may be unable	2 (luml cely be e to more e to more	bar nerve 2). Given true? ve or feel ve or feel

ANS:	С	PTS:	1	DIF:	3	REF:	Page 34
OBJ:	2.3	KEY:	Application				

49. A person with cervical spinal cord damage is known as a ______ and experiences loss of sensation and motor control in the ______.

	a. paraplegic; armsb. paraplegic; legs of	a. paraplegic; arms and legsb. paraplegic; legs only			c. quadriplegic; arms and legsd. quadriplegic; legs only						
	ANS: C OBJ: 2.3	PTS: KEY:	1 Conceptual	DIF:	2	REF:	Page 35				
50.	The myelencephalon a. hindbrain. b. midbrain.	and me	tencephalon ar	re locate c. for d. cer	ed in the ebrain. ebellum.						
	ANS: A OBJ: 2.4	PTS: KEY:	1 Factual	DIF: MSC:	2 New	REF:	Page 35				
51.	Another name for thea. myelencephalon.b. metencephalon.	e midbra	in is the	c. me d. die	sencephalon. ncephalon.						
	ANS: C OBJ: 2.4	PTS: KEY:	1 Factual	DIF: MSC:	2 New	REF:	Page 35				
52.	The brainstem contai a. hindbrain only. b. midbrain only.	ns the		c. hin d. hin	dbrain and mid dbrain, midbra	lbrain. in, and f	forebrain.				
	ANS: C OBJ: 2.4	PTS: KEY:	1 Factual	DIF:	1	REF:	Page 35				
53.	The structure located a. medulla. b. cerebellum.	just ros	tral to the junc	ction bet c. por d. reti	ween the spina is. cular formation	l cord a 1.	nd the brain is the				
	ANS: A OBJ: 2.4	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 35				
54.	Jonathan has been dia that until treated, the a. balance and moto b. breathing, heart ra c. control of aggress d. decision-making.	agnosed tumor v r coordi ate, and sion.	with a tumor vill most direct ination. blood pressure	located tly affec e.	in his medulla. t his	His phy	vsician warns him				
	ANS: B OBJ: 2.4	PTS: KEY:	1 Application	DIF: MSC:	2 New	REF:	Page 35				
55.	The pons and cerebel a. telecephalon b. diencephalon	lum ma	ke up which o	f the fol c. me d. me	lowing division sencephalon tencephalon	ns?					
	ANS: D OBJ: 2.4	PTS: KEY:	1 Factual	DIF: MSC:	2 New	REF:	Page 35				

56. The brainstem contains which of the following structures?

	a. the central sulcusb. the corpus callos	s um		c. d.	the the	medulla hypothalamus		
	ANS: C OBJ: 2.4	PTS: KEY:	1 Factual	D	IF:	1	REF:	Page 35
57.	The medulla contain a. balance and mot b. heart rate and res	s nuclei or coord spiration	responsible fo	or wł c. d.	hich vist aud	of the followin ual reflexes litory reflexes	g functi	ons?
	ANS: B OBJ: 2.4	PTS: KEY:	1 Factual	D	IF:	2	REF:	Page 35
58.	The cochlear and ve a. midbrain. b. medulla.	stibular	nuclei are loca	ted : c. d.	in th por cer	e 1s. ebellum.		
	ANS: C OBJ: 2.4	PTS: KEY:	1 Factual	D	IF:	2	REF:	Page 35
59.	Lucy is experiencing likely to look for the a. vestibular system b. reticular formatic c. red nucleus and d. cochlear nucleus	g problem source in and the on. the cerefy and the	ns with dizzin of her problem e cerebellum. pellum. inferior collic	ess a is in uli.	and 1 the	naintaining her	balanc	e. Her physician is
	ANS: A OBJ: 2.4	PTS: KEY:	1 Application	D] M	IF: SC:	2 New	REF:	Page 35
60.	The reticular formation a. appetite. b. heart rate and res	ion is in spiration	volved with re	gula c. d.	tion sex slee	of ual activity. ep and arousal.		
	ANS: D OBJ: 2.4	PTS: KEY:	1 Factual	D	IF:	2	REF:	Page 35
61.	The reticular formation a. medulla. b. medulla and pon	ion is lo s.	cated in the	c. d.	por me	ns. dulla, pons, and	l midbr	ain.
	ANS: D OBJ: 2.4	PTS: KEY:	1 Factual	D	IF:	3	REF:	Page 35
62.	Your textbook tells	you that	the medulla, li	ike t	he si	oinal cord. com	tains lar	ge quantities of

- white matter. This means that
 - a. the medulla contains large numbers of nuclei which control breathing and other vital functions that are mediated by the spinal cord.
 - b. many axons travel through the medulla, just like they do through the spinal cord.
 - c. there is a great deal of material in both the spinal cord and medulla, the functions of which we do not understand.
 - d. many reflexes are controlled by the medulla and the spinal cord.

	ANS: OBJ:	B 2.4	PTS: KEY:	1 Application	DIF:	3	REF:	Page 35
63.	The loc a. me b. por	cus coeruleus is dulla. 1s.	s located	d in the	c. mio d. cer	lbrain. ebellum.		
	ANS: OBJ:	B 2.4	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 36
64.	Which a. the b. the	of the followir midbrain diencephalon	ng struct	tures does not	contain c. the d. the	any parts of th medulla hindbrain	e reticul	lar formation?
	ANS: OBJ:	B 2.4	PTS: KEY:	1 Factual	DIF:	3	REF:	Page 36
65.	Which sleep? a. the b. the c. the d. per	of the followir vestibular nuc raphe nuclei a red nucleus an iaqueductal gra	ng struct leus and nd the lo id substa ay and t	tures are impo l the cochlear ocus coeruleus antia nigra he red nucleus	rtant to nucleus	the regulation of	of mood	, arousal, and
	ANS: OBJ:	B 2.4	PTS: KEY:	1 Factual	DIF: MSC:	2 New	REF:	Page 36
66.	Alcoho a. reti b. hyp	ol interferes wit cular formation pothalamus.	th skille n.	d movements	primaril c. cer d. me	ly through its a ebellum. dulla.	ction on	the
	ANS: OBJ:	C 2.4	PTS: KEY:	1 Factual	DIF:	1	REF:	Page 37
67.	Autism a. cer b. reti	n is frequently a ebellum. Icular formation	associat n.	ed with abnorn	malities c. me d. ves	in the dulla. tibular nuclei.		
	ANS: OBJ:	A 2.4	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 37
68.	Which a. per b. the	of the followir iaqueductal gra superior collic	ng struct ay suli	tures is found	in huma c. the d. the	ns, but not in o neodentate nuo substantia nigr	other ani cleus a	mals?
	ANS: OBJ:	C 2.4	PTS: KEY:	1 Factual	DIF: MSC:	3 New	REF:	Page 37

^{69.} Stanley is experiencing ongoing degeneration in his cerebellum. Consequently, which of the following behaviors may become progressively more difficult for him? a. breathing

	b. mac. sled. spe	aintaining a nor peping eaking clearly	mal cor	e body temper	ature				
	ANS: OBJ:	D 2.4	PTS: KEY:	1 Application	DIF: MSC	: :	3 New	REF:	Page 37
70.	The do a. teg b. tec	orsal portion of gmentum. etum.	the mic	lbrain is also k	cnown c. c d. r	as ere etio	the bral aqueduct. cular formation	1.	
	ANS: OBJ:	B 2.4	PTS: KEY:	1 Factual	DIF	:	3	REF:	Page 37
71.	A path ventra a. in b. in	way considered l tegmentum. V the spinal cord the hindbrain	d impor Vhere w	tant to our exp ould we look	beriend to find c. in d. in	ce o l th n th n th	of reward and p his area? he midbrain he forebrain	pleasur	e originates in the
	ANS: OBJ:	C 2.4	PTS: KEY:	1 Factual	DIF: MSC	: ::	2 New	REF:	Page 37
72.	The ce a. thi b. tw c. fou d. fou	erebral aqueduc rd and fourth v o lateral ventric urth ventricle au urth ventricle au	et links t entricle cles. nd the s nd the s	he s. pinal canal. ubarachnoid sj	pace.				
	ANS: OBJ:	A 2.4	PTS: KEY:	1 Factual	DIF	:	2	REF:	Page 37
73.	Which a. the b. the	of the following red nucleus substantia nig	ng struc ra	tures participa	tes in c. p d. tl	ou eri ne	r experience of aqueductal gra superior collic	f pain? v uli	
	ANS: OBJ:	C 2.4	PTS: KEY:	1 Factual	DIF	:	3	REF:	Page 37
74.	Our er comin a. suj b. inf	njoyment of a g g from differen perior colliculi. Perior colliculi.	ood sur t directi	round sound s ions in our env	ystem vironm c. p d. s	, w nen eri ubs	which makes it at, depends on aqueductal gra stantia nigra.	seem lil our iy.	ke sounds are
	ANS: OBJ:	B 2.4	PTS: KEY:	1 Application	DIF: MSC	2:	2 New	REF:	Page 38
75.	The ba functiona. me	asal ganglia, su ons? emory	bstantia	nigra, and red	l nucle	eus ym	are important	for whi	ch of the following em control
	b. mo ANS:	B	PTS:	1	d. e DIF:	mo	3	REF:	Page 38

OBJ: 2.4 KEY: Factual 76. Several visual reflexes are managed by the a. red nucleus. c. superior colliculi. b. periaqueductal gray. d. inferior colliculi. ANS: C PTS: 1 DIF: 2 REF: Page 38 OBJ: 2.4 **KEY:** Factual 77. The diencephalon contains which of the following structures? a. the thalamus and hypothalamus b. the thalamus and the basal ganglia c. the inferior and superior colliculi d. the substantia nigra and the basal ganglia ANS: A PTS: 1 DIF: 1 REF: Page 38 OBJ: 2.4 KEY: Factual 78. Before proceeding to the cerebral cortex, input from most sensory systems converges on the c. amygdala. a. hypothalamus. b. thalamus. d. hippocampus. ANS: B PTS: 1 DIF: 2 REF: Page 38 **KEY:** Factual OBJ: 2.4 79. Katie has a tumor that is disrupting her ability to maintain her body temperature. Near which of the following structures is Katie's tumor most likely to be located? a. hypothalamus c. locus coeruleus b. periaqueductal gray d. raphe nuclei ANS: A PTS: 1 DIF: 2 REF: Page 39 KEY: Application MSC: New OBJ: 2.4 80. Major regulatory functions, including hunger, thirst, sex, and temperature control, are managed primarily by the a. hypothalamus. c. amygdala. b. thalamus. d. hippocampus. ANS: A PTS: 1 DIF: 2 REF: Page 39 **KEY:** Factual OBJ: 2.4 81. The release of hormones by the pituitary gland is regulated primarily by the a. hypothalamus. c. amygdala. b. thalamus. d. hippocampus. DIF: 2 ANS: A PTS: 1 REF: Page 39 OBJ: 2.4 KEY: Factual 82. The caudate nucleus, globus pallidus, putamen, and subthalamic nucleus make up the a. hypothalamus. c. basal ganglia.

b. reticular formation. d. limbic system.

	ANS: OBJ:	C 2.4	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 39
83.	The su a. die b. reti	bthalamic nucl ncephalon. icular formatio	eus is p n.	art of the	c. d.	bas lim	al ganglia. bic system.		
	ANS: OBJ:	C 2.4	PTS: KEY:	1 Factual	DI MS	F: SC:	2 New	REF:	Page 39
84.	Anator and rev a. reti b. ves	nists often grow ward, with the icular formatio stibular system	up the n n.	ucleus accum	bens c. d.	, wh crai bas	iich participates nial nerve nucle al ganglia.	s in our ei.	sense of pleasure
	ANS: OBJ:	D 2.4	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 39
85.	Some a a. tha b. hip c. reti d. am	anatomists grou lamus and the pocampus and icular formatio ygdala and the	up the _ hypotha the am n and th substar	wit ulamus ygdala ne substantia n ntia nigra	h the igra	e bas	sal ganglia.		
	ANS: OBJ:	D 2.4	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 39
86.	Degen a. Alz b. Par	eration of the b zheimer's disea rkinson's diseas	basal gai ise se	nglia is a featu	re o c. d.	f wh sch auti	iich of the follo izophrenia ism	owing co	onditions?
	ANS: OBJ:	B 2.4	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 39
87.	The str a. em b. sen	ructures of the otion and learn asation.	limbic s ning.	system are par	ticul c. d.	arly mo reg	important in tor control. ulation of hung	er and	thirst.
	ANS: OBJ:	A 2.4	PTS: KEY:	1 Factual	DI	F:	1	REF:	Page 40
88.	The hij a. lea b. mo	ppocampus is i rning and mem otor control	mportai iory	nt in which of	the f c. d.	follo reco reg	owing functions ognition of biol ulation of hung	? logical (ger and t	danger hirst
	ANS: OBJ:	A 2.4	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 40
80	Stanha	n'a auroom for	onilona	whee mode it		. 4:f	figult for him t		he names of new

89. Stephen's surgery for epilepsy has made it very difficult for him to learn the names of new people he meets. It is most likely that Stephen's surgery affected his

a. hippocampus in both of his temporal lobes.

b. locus coeruleus.

- c. hypothalamus.d. nucleus accumbens.

	ANS: OBJ:	A 2.4	PTS: KEY:	1 Application	DIF: MSC:	2 New	REF:	Page 40
90.	Damag a. Par b. sch	ge to the hippod kinson's diseas hizophrenia.	campus se.	in both cerebr	al hemis c. reti d. ant	spheres is assoc ograde amnesi erograde amne	ciated w a. sia.	vith
	ANS: OBJ:	D 2.4	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 40
91.	The an a. lear b. mo	nygdala partici rning and mem tor control	pates in ory	which of the	followin c. fea d. reg	g behaviors? r and aggressic ulation of hung	on ger and	thirst
	ANS: OBJ:	C 2.4	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 40
92.	Studen associa structu tones? a. the b. the	ts in a biologic ations between res would mak nucleus accun amydala	cal psyc tones a te it very nbens	hology laborat nd electrical sl y difficult for t	tory wer hock. Le the stude c. the d. the	e investigating esions to which ents to teach th substantia nign hypothalmus	the abii of the f eir rats ra	lity of rats to form following to be afraid of the
	ANS: OBJ:	B 2.4	PTS: KEY:	1 Application	DIF: MSC:	2 New	REF:	Page 40
93.	Which a. the b. the	of the followin hypothalamus thalamus	ng struc	tures is not in	cluded i c. the d. the	n the limbic sy cingulate corte amygdala	stem? ex	
	ANS: OBJ:	B 2.4	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 40
94.	Cindy monke been in lesion I a. He nor	brought a fake ys responded y a lesion expen- had been done. probably didn mal for rhesus	rubber vith fea riment p . What v 't have monke	snake into the r vocalizations prior to coming would you tell a lesion at all, vs.	lab whe s, but on g to her Cindy a as ignor	ere her rhesus n e did not. Cind lab, but she did bout her monk ring fake snake	nonkeys y knew ln't kno ey? s is con	s lived. Most of the this monkey had w what type of sidered

- hormal for rhesus monkeys.b. He probably had a lesion in the hippocampus of both hemispheres.c. He probably had a lesion in the amygdala of both hemispheres.d. He probably had a lesion of the ventromedial nucleus of the hypothalamus.

ANS:	С	PTS:	1	DIF:	2	REF:	Page 40
OBJ:	2.4	KEY:	Application	MSC:	New		

- 95. You have noticed that you sometimes have a "knee jerk" emotional reaction to particular things, even if you try to control your emotions. Given what you have learned so far, what might explain this?
 - a. We can't control either emotional or physical reflexes.
 - b. Emotion is primarily controlled by the limbic system, which does not include parts of the brain involved with logical thought.
 - c. Emotion is primarily controlled by the basal ganglia, which do not communicate with the cerebral cortex.
 - d. There is no need to explain this situation. Anyone can control emotional feelings with effort.

ANS:	В	PTS:	1	DIF:	2	REF:	Page 40
OBJ:	2.4	KEY:	Conceptual				

- 96. Lesions of the ______ usually produce rage and attack behaviors.
 a. hippocampus
 b. amygdala
 ANS: C
 PTS: 1
 DIF: 2
 REF: Page 41
 OBJ: 2.4
 KEY: Factual
- 97. The olfactory bulbs participate in the processing of which sensory modality?

a. vision b. touch		c. auditiond. smell	
ANS: D OBJ: 2.4	PTS: 1 KEY: Factual	DIF: 1	REF: Page 41

98. Von Economo neurons are found in the

- a. hippocampus of all mammals.
- b. hippocampus of great apes and humans.
- c. cingulate cortex of all mammals.
- d. cingulate cortex of great apes and humans.

ANS:	D	PTS: 1	DIF: 2	REF:	Page 41
OBJ:	2.4	KEY: Factual	MSC: New		

99. Jessica was playing poker while on a vacation in Las Vegas, and in a fit of exuberance, bet all of her money on one hand. Unfortunately, it turned out to be a losing hand. If we were using functional magnetic resonance imaging (fMRI) to observe Jessica's reactions to losing, which structure might have shown especially increased activation?

a. 1 b. 1	her her	anterior cingu posterior cingu	late cort ulate co	tex rtex	c. d.	her her	amygdala hippocampus		
ANS OBJ	S: J:	A 2.4	PTS: KEY:	1 Application	DI M	F: SC:	3 New	REF:	Page 41

100. Paul just found out that all of his friends in the dorm went to a party without him. Which of the following structures in Paul's brain would we expect to be especially activated by this social rejection?

a. the amygdala c. the anterior cingulate cortex

	b. the	b. the hippocampus					d. the posterior cingulate cortex					
	ANS: OBJ:	C 2.4	PTS: KEY:	1 Application	DII MS	F: SC:	3 New	REF:	Page 41			
101.	The "b a. gyı b. sul	umps" or ridge i. ci.	es of the	cerebral corte	ex aro c. d.	e kn fiss gan	own as ures. glia.					
	ANS: OBJ:	A 2.5	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 42			
102.	Korbin a. div b. reg c. the d. the	ian Brodmann isions of the su ular units cove function of the distribution of	's system orface by ring ond e underl cell bo	m for dividing y sulci and fiss e square inch. ying cortex of dies in the six	the sures each laye	cere s. n are rs of	bral cortex into ea. f cortex.	o 52 are	as is based on			
	ANS: OBJ:	D 2.5	PTS: KEY:	1 Factual	DII MS	F: SC:	3 New	REF:	Page 42			
103.	The "v a. gyı b. sul	alleys" or depr i. ci.	ressions	between ridge	es of c. d.	cere nuc gan	ebral cortex are lei. glia.	known	as			
	ANS: OBJ:	B 2.5	PTS: KEY:	1 Factual	DI	F:	1	REF:	Page 42			
104.	A parti a. gyı b. fas	cularly large so us. ciculus.	ulcus is	known as a	c. d.	fiss lem	ure. niscus.					
	ANS: OBJ:	C 2.5	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 42			
105.	The de a. into b. phy c. ide d. ide	gree of cortica elligence. ysical size. ntity as an hert ntity as noctur	l convol pivore, a nal or di	lution in the br a carnivore, or iurnal.	ain j an o	pred omni	icts a species' vore.					
	ANS: OBJ:	A 2.5	PTS: KEY:	1 Factual	DI	F:	1	REF:	Page 42			
106.	How m a. two b. fou	nany distinct la D Ir	yers are	typically four	nd in c. d.	the six eigł	cerebral cortex	к?				
	ANS: OBJ:	C 2.5	PTS: KEY:	1 Factual	DI	F:	3	REF:	Page 42			

107. Which of the cortical layers contains no cell bodies?

	a. layer Ib. layers II and IV		c. layers III and Vd. layer VI	
	ANS: A OBJ: 2.5	PTS: 1 KEY: Factual	DIF: 3 R	EF: Page 42
108.	Granule cells are usu a. layer I. b. layers II and IV.	ally found in cortical	c. layers III and V.d. layer VI.	
	ANS: B OBJ: 2.5	PTS: 1 KEY: Factual	DIF: 2 R	EF: Page 42
109.	Pyramidal cells are u a. layer I. b. layers II and IV.	sually found in cortica	al c. layers III and V. d. layer VI.	
	ANS: C OBJ: 2.5	PTS: 1 KEY: Factual	DIF: 2 R	EF: Page 42
110.	Output from the corte the cortical layers? a. II and IV b. III and IV	ex to other parts of the	e nervous system usually o c. II and II d. V and VI	riginates in which of
	ANS: B OBJ: 2.5	PTS: 1 KEY: Factual	DIF: 2 R MSC: New	EF: Page 42
111.	 Although the human a. its volume is sim b. its functions are of mammals. c. it makes up nearl d. it makes up only 	cerebral cortex perfor ilar to the cortex of ca quite different from the y the entire volume of a thin layer of tissue c	ms many higher order cog ts and dogs. e functions performed by the cerebral hemisphere. overing the cerebral hemi	nitive functions, the cortex of other spheres.
	ANS: D OBJ: 2.5	PTS: 1 KEY: Conceptual	DIF: 2 R	EF: Page 42
112.	The caudal boundary a. longitudinal fissu b. lateral sulcus.	of the frontal lobe is a tre.	formed by the c. calcarine fissure. d. central sulcus.	
	ANS: D OBJ: 2.5	PTS: 1 KEY: Factual	DIF: 2 R	EF: Page 43
113.	The most rostral lobe a. frontal b. parietal	es of the cerebral corte	x are the lobes c. temporal d. occipital	S.
	ANS: A OBJ: 2.5	PTS: 1 KEY: Factual	DIF: 1 R	EF: Page 43

114.	The most caudal lobe a. frontal b. parietal	es of the cerebral corte	ex are the l c. temporal d. occipital	obes.	
	ANS: D OBJ: 2.5	PTS: 1 KEY: Factual	DIF: 1	REF:	Page 43
115.	Primary somatosenso a. frontal b. parietal	ory cortex is located in	h the lobes c. temporal d. occipital		
	ANS: B OBJ: 2.6	PTS: 1 KEY: Factual	DIF: 3	REF:	Page 43
116.	The postcentral gyrus a. somatosensory b. motor	s contains primary	cortex. c. auditory d. visual		
	ANS: A OBJ: 2.6	PTS: 1 KEY: Factual	DIF: 1 MSC: New	REF:	Page 43
117.	Primary visual cortex a. frontal b. parietal	is located in the	lobes. c. temporal d. occipital		
	ANS: D OBJ: 2.6	PTS: 1 KEY: Factual	DIF: 2	REF:	Page 43
118.	Primary auditory cort a. frontal b. parietal	tex is located in the	c. temporal d. occipital		
	ANS: C OBJ: 2.6	PTS: 1 KEY: Factual	DIF: 2	REF:	Page 43
119.	Primary motor cortex a. frontal b. parietal	is located in the	c. temporal d. occipital		
	ANS: A OBJ: 2.6	PTS: 1 KEY: Factual	DIF: 2	REF:	Page 43
120.	Following a serious h led to negative conse met in a bar. It is mos a. occipital b. frontal	nead injury, Robert be quences, such as quitt st likely that Robert's	gan to make a series o ing his job and leaving injury affected his c. parietal d. temporal	f impuls g his wif	tive decisions that fe for a woman he lobes.
	ANS: B	PTS: 1	DIF: 2	REF:	Page 43

KEY: Application MSC: New

OBJ: 2.5

121. Clare's head injury has left her with serious problems in planning and executive cognitive functions, such as being able to remember a new friend's telephone number long enough to put it in her cell phone. It is likely that Clare's injury damaged her

a. amygdala. b. hippocampus.		c. dorsolateral prefrontal cortex.d. posterior cingulate cortex.				
ANS: C	PTS: 1	DIF: 3 I	REF: Page 44			
OBJ: 2.5	KEY: Application	MSC: New				

122. Given what you know about the functions of the frontal lobes, which of the following are likely side effects of the ill-conceived frontal lobotomy procedure that was popular in the middle of the 20th century?

- a. sleep disturbances
- b. depression
- c. obesity
- d. impulsivity, personality change, and poor decision-making

ANS:	D	PTS:	1	DIF:	2	REF:	Page 44
OBJ:	2.5	KEY:	Application	MSC:	New		

- 123. The two cerebral hemispheres are connected by the
 - a. anterior commissure and the corpus callosum.
 - b. anterior and medial commissures.
 - c. medial commissure and the corpus callosum.
 - d. arcuate fasciculus and the corpus callosum.

ANS:	А	PTS:	1	DIF:	1	REF:	Page 44
OBJ:	2.5	KEY:	Factual				



124.

Among the functions localized in the area designated "1" above are a. decision-making and planning.

	b. processing of sound and visual recognition of objects.c. generating movement and perceiving body position.d. primary visual processing and perception of movement.							
	ANS: (see Fi	A gure 2.19)						
	PTS: KEY:	1 Factual	DIF: MSC:	2 New	REF:	Page 45	OBJ:	2.5
125.	A patie typical a. fro b. par	ent who becom attention span ntal rietal	es unch may ha	aracteristically	y impul d dama c. ter d. oc	sive and unable ge to his or her nporal cipital	e to mair	ntain his or her lobes.
	ANS: OBJ:	A 2.5	PTS: KEY:	1 Application	DIF:	2	REF:	Page 45
126.	Extren a. hip b. orb	ne antisocial be ppocampus. bitofrontal corte	ehavior	has been corre	lated w c. pri d. co	ith damage to t mary visual co rpus callosum.	he rtex.	
	ANS: OBJ:	B 2.5	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 45
127.	 27. Your art teacher in high school was always telling the class that everyone could be an artist if they would just stop thinking with their left brain and let their right brain control their hands. Your teacher was wrong because a. creativity is mediated by the right hemisphere. b. artistic ability is mediated by the left hemisphere. c. each hemisphere controls the contralateral hand, and the corpus callosum ensures continuous communication between the two hemispheres. 						could be an artist in control their sum ensures	
	ANS: OBJ:	C 2.5	PTS: KEY:	1 Conceptual	DIF:	2	REF:	Page 46
128.	Damag a. Bro b. We	ge to which of t oca's area ernicke's area	the follo	owing areas rea	c. the orbitofrontal cortex d. the cingulate cortex			
	ANS: OBJ:	A 2.5	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 46
129.	For the left her a. lan b. spa	e vast majority misphere? guage atial abilities	of the p	oopulation, wh	ich of th c. int d. art	he following fu uition istic and music	nctions	are localized to the
	ANS: OBJ:	A 2.5	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 46

130.	Which of the followia. cervicalb. thoracic	ng periph	neral nerves en	nter and c. cra d. lun	l exit the brain nial nbar	itself?	
	ANS: C OBJ: 2.7	PTS: KEY:	1 Factual	DIF:	1	REF:	Page 47
131.	How many pairs of c a. 6 b. 8	ranial ner	rves do huma	ns have c. 10 d. 12	?		
	ANS: D OBJ: 2.7	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 47
132.	Which of the cranial tract? a. the trochlear nerv b. the abducens nerv	nerves pr ve (IV) ve (VI)	ovides input	and feed c. the d. the	dback from the hypoglossal n vagus nerve (2	heart, l erve (X X)	iver, and digestive II)
	ANS: D OBJ: 2.7	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 48
133.	Which of the cranial a. the trigeminal ner b. the facial nerve (nerves do rve (V) VII)	o we use to pr	roduce f c. the d. The	acial expressio trochlear nerv e spinal access	ons? e (IV) ory nerv	ve (XI)
	ANS: B OBJ: 2.7	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 48
134.	 134. Which of the following statements accurately describes the ability of cranial nerves to carry sensory and motor information? a. Half of the cranial nerves carry sensory information and the other half of the cranial nerves carry motor information. b. All cranial nerves carry both sensory and motor information. c. Some cranial nerves carry just sensory information, while all of the others carry both sensory and motor information. d. Some cranial nerves carry sensory information, others carry motor information, 						
	ANS: D OBJ: 2.7	PTS: KEY:	1 Factual	DIF: MSC:	3 New	REF:	Page 48
135.	Efferent spinal nerve a. ventral; sensory b. ventral; motor	s exit the	r	oot and c. dor d. dor	carry rsal; sensory rsal; motor	in	formation.
	ANS: D OBJ: 2.7	PTS: KEY:	1 Factual	DIF:	2	REF:	Page 48
136.	Damage to a mixed r body.	erve is li	kely to produ	ce impa	irments in		for a part of the

a. both sensation and motor control c. motor control only

	b. sensation only		d. neither sensation	nor motor control
	ANS: A OBJ: 2.7	PTS: 1 KEY: Factual	DIF: 2	REF: Page 48
137.	Dorsal spinal ganglia a. are located in the b. contain the cell bo c. are located in the d. contain the cell bo	ventral horns of the sp odies of efferent nerve dorsal horns of the sp odies of afferent nerve	pinal cord. es. inal cord. es.	
	ANS: D OBJ: 2.7	PTS: 1 KEY: Factual	DIF: 3	REF: Page 49
138.	a. All b. None of the	ves are myelinated.	c. All efferentd. All afferent	
	ANS: C OBJ: 2.7	PTS: 1 KEY: Factual	DIF: 3	REF: Page 49



designated "3" in this illustration

- a. transmits efferent data from the central nervous system to muscles and glands.
- b. transmits afferent data from the periphery to the central nervous system.
- c. is a mixed nerve, carrying both afferent and efferent data to and from the central nervous system.
- d. is a sympathetic ganglion, and participates in autonomic arousal.

ANS: B (see Figure 2.23)

PTS: 1 DIF: 3 REF: Page 49 OBJ: 2.7

The structure

KEY: Factual MSC: New

140.	The dull, aching feeling that often follows ifa. myelinated efferentb. unmyelinated efferent				injury is probably carried byc. myelinated afferentd. unmyelinated afferent				nerves.
	ANS: OBJ:	D 2.7	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 49
141.	The au a. the b. the	tonomic nervo skeletal musc heart, lungs, a	us syste les. .nd othe	em directly con r organs.	ntrol c. d.	s the tem	reticular formation	ation. ation.	
	ANS: OBJ:	B 2.8	PTS: KEY:	1 Factual	DI	F:	1	REF:	Page 49
142.	Biofee the	dback training	allows	people to cons	sciou	ısly	control process	ses norn	nally managed by
	a. fro b. reti	ntal lobe. icular formatio	n.		c. d.	son aute	natic nervous s onomic nervou	ystem. Is syster	n.
	ANS: OBJ:	D 2.8	PTS: KEY:	1 Factual	DI	F:	1	REF:	Page 49
143.	Interna a. the b. the c. the d. bot	ll stimuli, such somatic nervo parasympathe sympathetic n ch the parasymp	as the a ous syste tic nerv ervous pathetic	arrival of food em. ous system. system. and sympathe	in tl etic 1	ne di	gestive system ous systems.	ı, norma	lly activate
	ANS: OBJ:	B 2.8	PTS: KEY:	1 Factual	D	F:	2	REF:	Page 50
144.	The bo a. the b. the c. the d. bot	ody's "fight or f somatic nervo parasympathe sympathetic n th the parasymp	flight" r ous syste tic nerv ervous pathetic	esponse is man em. ous system. system. and sympathe	nage	ed by	ous systems.		
	ANS: OBJ:	C 2.8	PTS: KEY:	1 Factual	D	F:	2	REF:	Page 50
145.	Salivat a. the b. the c. the d. bot	tion and digestic somatic nervo parasympathe sympathetic n the parasymp	ion are i ous syste tic nerv ervous pathetic	inhibited durin em. ous system. system. and sympathe	ng ac	etiva	tion of ous systems.		
	ANS: OBJ:	C 2.8	PTS: KEY:	1 Factual	DI	F:	2	REF:	Page 50

146. Which of the following systems synapse on a chain of ganglia just outside the spinal cord?

- a. the somatic nervous system
- b. the parasympathetic nervous system
- c. the sympathetic nervous system
- d. both the parasympathetic and sympathetic nervous systems

ANS:	С	PTS: 1	DIF:	2	REF:	Page 50
OBJ:	2.8	KEY: Factual				

147. Which of the following is a consequence of sympathetic nervous system activity?

a. increased he	art rate	c. increased salivation					
b. increased di	gestion	d. decreased blood pressure					
ANS: A	PTS: 1	DIF: 1	REF: Page 50				
OBJ: 2.8	KEY: Factual						

- 148. In the parasympathetic nervous system
 - a. both pre- and post-ganglionic synapses use norepinephrine.
 - b. both pre- and post-ganglionic synapses use acetylcholine.
 - c. pre-ganglionic synapses use norepinephrine, and post-ganglionic synapses use acetylcholine.
 - d. pre-ganglionic synapses use acetylcholine, and post-ganglionic synapses use norepinephrine.

ANS:	В	PTS:	1	DIF:	3	REF:	Page 50
OBJ:	2.8	KEY:	Factual				

149. Sexual activity involves

- a. the parasympathetic nervous system only.
- b. the sympathetic nervous system only.
- c. both the parasympathetic and sympathetic nervous systems.
- d. neither the parasympathetic nor the sympathetic nervous system.

ANS: CPTS: 1DIF: 2REF: Page 50OBJ: 2.8KEY: Factual

- 150. Constriction of blood vessels near the skin's surface is a characteristic of activity in
 - a. the somatic nervous system.
 - b. the sympathetic nervous system.
 - c. the parasympathetic nervous system.
 - d. both the sympathetic and parasympathetic nervous systems.

ANS:	В	PTS: 1	DIF:	2	REF:	Page 50
OBJ:	2.8	KEY: Factua	1			

151. The neurons associated with the parasympathetic nervous system are located in the ______ of the spinal cord.

a. lur	lumbar and sacral divisions			c. brain and sacral division				
b. the	pracic and lumb	ar divisions	d.	d. brain and lumbar division				
ANS:	С	PTS: 1	D	F:	2	REF:	Page 52	
OBJ:	2.8	KEY: Factual					-	

152. The brain structure with the most direct responsibility over the autonomic nervous system is the

a. amygdala.b. cingulate cortex.		c. hippocampus.d. hypothalamus.		
ANS: D OBJ: 2.8	PTS: 1 KEY: Factual	DIF: 2	REF:	Page 52

153. Which of the following statements offers the best definition of evolution?

- a. Evolution describes descent with modifications from a common ancestor.
- b. Evolution describes how humans evolved from chimpanzees.
- c. Evolution describes the origin of life from the big bang.
- d. Evolution describes the transmission of dominant and recessive traits to offspring.

ANS:	А	PTS:	1	DIF:	2	REF:	Page 53
OBJ:	2.9	KEY:	Factual	MSC:	New		-

154. Researchers studying two species of frogs found that one species seemed to be more numerous in ponds with lots of fishes whereas the other species was more numerous in ponds with relatively fewer fishes. Using your understanding of the evolutionary concept of fitness, choose the statement that best describes the situation.

- a. It is only a matter of time before one of these species becomes more numerous in both ponds because certain traits are reproduced more successfully than others regardless of environment.
- b. It is likely that the two species differ in a trait that makes one better suited to ponds with lots of fishes and one better suited to ponds with fewer fishes.
- c. Both species are likely to become extinct in the near future as neither can successfully cohabit with fishes.
- d. Over time the numbers of the two species will become more equal, regardless of the type of pond they inhabit.

ANS:	В	PTS:	1	DIF:	2	REF:	Page 53
OBJ:	2.9	KEY:	Application	MSC:	New		•

- 155. Natural selection refers to the
 - a. ability of farmers and breeders to develop animals with specific traits, such as fast horses and hairless Chihuahuas.
 - b. ability to select embryos with certain characteristics during in vitro fertilization.
 - c. success of one genotype relative to others due to fitness.
 - d. dominance of genes for one trait, such as dark eye color, over another, such as blue eye color.

ANS:	С	PTS:	1	DIF:	2	REF:	Page 53
OBJ:	2.9	KEY:	Factual	MSC:	New		

- 156. Why do some researchers believe that natural blonde hair will disappear as a natural trait within the next 200 years?
 - a. People with blonde hair are more susceptible to many diseases, including cancer, limiting their ability to reproduce.
 - b. People with blonde hair are less fertile than people with dark hair.
 - c. Genes responsible for blonde hair are mutating at high rates.

	d. Ble lik me	d. Blonde hair is a recessive trait and social factors, such as mobility, may reduce the likelihood that pairs of individuals, both of whom have genes for blonde hair, will meet, mate, and reproduce.							
	ANS: OBJ:	D 2.9	PTS: KEY:	1 Factual	DI M	IF: SC:	2 New	REF:	Page 53
157.	The fin a. 4.5 b. 3.5	rst animals with 5 billion 5 billion	n simple	e nerve nets pro	obał c. d.	oly e 700 250	volved about _) million) million		years ago.
	ANS: OBJ:	C 2.9	PTS: KEY:	1 Factual	DI	IF:	2	REF:	Page 54
158.	Anima a. 4.5 b. 3.5	lls with the first 5 billion 5 billion	t rudime	entary brains p	roba c. d.	ably 700 250	evolved about) million) million		years ago.
	ANS: OBJ:	D 2.9	PTS: KEY:	1 Factual	DI	IF:	2	REF:	Page 54
159.	The fin a. 70 b. 25	rst somewhat h 0 0	uman b	rain probably o	leve c. d.	elope 10 4	ed about	m	illion years ago.
	ANS: OBJ:	D 2.9	PTS: KEY:	1 Factual	DI	IF:	2	REF:	Page 54
160.	True b a. cho b. mo	rains and spina ordates. ollusca.	l cords	occurred first	in c. d.	cru hen	stacean. nichordates.		
	ANS: OBJ:	A 2.9	PTS: KEY:	1 Factual	DI	IF:	2	REF:	Page 54
161.	Chord a. cho b. cho c. no d. no	ate nervous sys ordate nervous ordate nervous nchordate nervo nchordate nervo	tems di systems systems ous syst ous syst	ffer from nonc s run along the s run along the tems have brain tems provide fa	hor ver doi ns r aste	date ntral rsal s ather r rea	nervous system side of the anin side of the anin r than ganglia. ctions to senso	ns in tha nal. nal. ry infor	at mation.
	ANS: OBJ:	B 2.9	PTS: KEY:	1 Factual	DI	IF:	2	REF:	Page 54
162.	Amon a. lar b. mo c. lar d. sm	g chordates, ear ger cerebellum ore convoluted ger olfactory bu aller cerebellur	rly brain s cortices ulbs ms and	ns have	d co	_ tha	n later develop	ing bra	ins.
	ANS: OBJ:	D 2.9	PTS: KEY:	1 Factual	DI	IF:	2	REF:	Page 54

163.	The first <i>Homo sapie</i> a. 4 million b. 2 million	ns appeared about	years ago. c. 300,000 d. 200,000	
	ANS: D OBJ: 2.9	PTS: 1 KEY: Factual	DIF: 2	REF: Page 55
164.	Human children can b a. 6 months b. 18 months	first recognize themse	elves in a mirror around c. 2 years d. 3 years	l the age of
	ANS: B OBJ: 2.9	PTS: 1 KEY: Factual	DIF: 2 MSC: New	REF: Page 55
165.	In addition to humans themselves in the min a. all mammals b. all monkeys and a c. chimpanzees, ora d. no other animals	s, which of the follow ror? apes ngutans, and elephant can recognize themse	ring animals appear to b ts lves in the mirror	be able to recognize
	ANS: C OBJ: 2.9	PTS: 1 KEY: Factual	DIF: 2 MSC: New	REF: Page 55
166.	Researchers attemptin a. their goal is impo- b. the frontal lobes p c. the occipital and p d. the left hemispher	ng to locate the sense ssible to achieve. probably participate in parietal lobes are esse re plays a dominant re	of self in the brain hav n our sense of self. ential for maintaining of ole in our sense of self.	e suggested that ur sense of self.
	ANS: B OBJ: 2.9	PTS: 1 KEY: Factual	DIF: 2 MSC: New	REF: Page 55
167.	The most accurate as a. absolute weight o b. ratio of brain weight	sessment of the relativ f an animal's brain. ght to body weight.	ve intelligence of differ c. encephalization q d. cerebral quotient.	rent species is the uotient.
	ANS: C OBJ: 2.9	PTS: 1 KEY: Factual	DIF: 2	REF: Page 56
168.	Brain development ata. occurred very quib. occurred very sloc. occurred very slod. has appeared to sp	mong hominid species ckly. wly and unevenly. wly and gradually. peed up in the last cer	s ntury.	
	ANS: A OBJ: 2.9	PTS: 1 KEY: Factual	DIF: 2	REF: Page 56
1.00	a	1 6 44		

169. Compared with early examples of *Homo sapiens*, modern humans havea. much larger brains.c. brains that are about the same size.

	b. smaller brain	s.	d. more convoluted	brains.		
	ANS: C OBJ: 2.9	PTS: 1 KEY: Factual	DIF: 2	REF:	Page 56	
170.	Agriculture, urba size. a. large amount b. modest amou c. no apparent c d. possible redu	unization, and literacy app s of additional growth ints of additional growth changes ctions	ear to have produced _		in human brain	
	ANS: C OBJ: 2.9	PTS: 1 KEY: Factual	DIF: 2	REF:	Page 57	
171.	Factors that may a. the brain's red b. gender differ	limit human brain size in quirements for calcium. ences in brain size.	cludec. the brain's need for fatty acids.d. difficulties in childbirth.			
	ANS: D OBJ: 2.9	PTS: 1 KEY: Factual	DIF: 2	REF:	Page 57	
172.	 Among the possi a. hominids enj b. the developm c. urbanization, thinking. d. the developm 	ble reasons for the rapid oyed rich supplies of pro- nent of agriculture led to r or the development of ci nent of literacy stimulated	growth of hominid brain ein from meat, eggs, ar nore stable food supplie ties, favored brains cap considerable brain gro	ns is the ad seafoo es. able of 1 wth.	e fact that od. more complex	

ANS:	А	PTS:	1	DIF:	2	REF:	Page 57
OBJ:	2.9	KEY:	Factual	MSC:	New		-

TRUE/FALSE

1. True or false? The parietal lobes are found rostral to the occipital lobes and posterior to the frontal lobes.

ANS:	Т	PTS: 1	DIF: 2	REF:	Page 27
OBJ:	2.1	KEY: Factual	MSC: New		

2. True or false? The arachnoid layer of the meninges is found in both the central and peripheral nervous systems.

ANS:	F	PTS: 1		DIF:	1	REF:	Page 28
OBJ:	2.2	KEY: Fa	actual	MSC:	New		

3. True or false? Nerves originating in the lumbar division of the spinal cord serve the lower back and legs.

ANS: T PTS: 1 DIF: 1 REF: Page 34

UBJ: 2.3 KEY: Factual MSC: New	V
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4. True or false? The reticular formation extends from the medulla through the pons and into the midbrain.

ANS:	Т	PTS:	1	DIF:	1	REF:	Page 35
OBJ:	2.4	KEY:	Factual	MSC:	New		

5. True or false? The amygdala participates in emotional behavior, and fear in particular.

ANS:	Т	PTS: 1		DIF:	1	REF:	Page 40
OBJ:	2.4	KEY: F	Factual	MSC:	New		

6. True or false? Primary auditory cortex is found in the parietal lobe of the cerebral cortex.

ANS:	F	PTS: 1	DIF: 1	REF:	Page 44
OBJ:	2.5	KEY: Factual	MSC: New		

7. True or false? Primary somatosensory cortex is located in the precentral gyrus of the frontal lobe.

ANS:	F	PTS: 1		DIF:	1	REF:	Page 44
OBJ:	2.6	KEY: F	Factual	MSC:	New		

8. True or false? All cranial nerves carry both sensory and motor information to and from the brain.

ANS:	F	PTS: 1	DIF: 1	REF:	Page 47
OBJ:	2.7	KEY: Factual	MSC: New		

9. True or false? Neurons comprising the parasympathetic division of the autonomic nervous system are located in the brain and sacral divisions of the spinal cord.

ANS:	Т	PTS:	1	DIF:	1	REF:	Page 52
OBJ:	2.8	KEY:	Factual	MSC:	New		

10. True or false? Within a species, brain size is strongly and positively correlated with an individual's intelligence.

ANS:	F	PTS: 1	DIF: 2	REF:	Page 56
OBJ:	2.9	KEY: Factual	MSC: New		

COMPLETION



In this illustration, cerebrospinal fluid is shown moving from its place of synthesis in the _____ of the ventricles, through the _____ _____ of the spinal cord, and into the ______ within the meninges.

ANS:

choroid plexus, central canal, subarachnoid space

2

(See Figure 2.5b).

PTS: 1 DIF: KEY: Factual MSC: New REF: Page 31 OBJ: 2.2



Fill in the names of the four lobes depicted in this figure:

Area 1: ______ Area 2: ______ Area 3: _____ Area 4: _____

ANS:

frontal, parietal, occipital, temporal

(see Figure 2.19)

PTS: 1 DIF: 2 KEY: Factual MSC: New REF: Page 45 OBJ: 2.5



ANS:

sensory (afferent), motor (efferent) sensory, motor afferent, efferent (see Figure 2.23)

PTS:	1	DIF:	2	REF:	Page 49	OBJ:	2.7
KEY:	Factual	MSC:	New				

SHORT ANSWER

1. What are the three major planes of sections used in neuroanatomy?

ANS:

Sagittal sections are parallel to the midline, coronal sections divide the brain from front to back, and horizontal sections divide the brain from top to bottom.

PTS:	1	DIF:	2	REF:	Page 28	OBJ:	2.1
KEY:	Factual	MSC:	New				

2. What is the purpose of the cerebrospinal fluid?

ANS:

Cerebrospinal fluid cushions the brain, minimizing damage in the event of head injury and preventing unwanted stimulation of neurons due to pressure.

OBJ: 2.2



3.

Briefly describe the circulation of the cerebrospinal fluid, beginning with its synthesis and ending with its reabsorption.

ANS: Refer to Figure 2.5b.

PTS:1DIF:2REF:Page 31OBJ:2.2KEY:FactualMSC:New

4. What are the major functions of the spinal cord?

ANS:

The spinal cord carries information to and from the brain and manages a variety of protective and movement reflexes.

PTS:1DIF:1REF:Page 35OBJ:2.3KEY:FactualMSC:New

5. Describe the major functions of the cerebellum.

ANS:

The cerebellum traditionally has been viewed as contributing to motor coordination and balance, but it also appears to participate in higher level cognitive processing in humans.

PTS:	1	DIF:	1	REF:	Page 37	OBJ:	2.4
KEY:	Factual	MSC:	New				

6. What is the limbic system?

ANS:

The limbic system is a collection of structures embedded within the forebrain that participate in learning, memory, and emotion.

PTS:1DIF:1REF:Page 39OBJ:2.4KEY:FactualMSC:New

- 7. What functions are primarily managed by the occipital lobe?
 - ANS:

The occipital lobe is primarily involved with visual processing.

PTS:	1	DIF:	1	REF:	Page 44	OBJ:	2.5
KEY:	Factual	MSC:	New				

8. Define association cortex.

ANS:

Association cortex does not have a designated role in the processing of either sensory or motor information. Instead, it provides bridges or connections between these two functions.

PTS:	1	DIF:	1	REF:	Page 44	OBJ:	2.6
KEY:	Factual	MSC:	New				



Provide one example of a function that is localized to each of the four areas illustrated in this figure.

ANS: Refer to Figure 2.19)

PTS:	1	DIF:	2	REF:	Page 45	OBJ:	2.5
KEY:	Factual	MSC:	New				

10. Describe the functions of two of the cranial nerves.

ANS:

Various. Example: The olfactory nerve (Cranial N. 1) carries information from the olfactory neurons of the nose to the brain. The vagus nerve (Cranial N. 10) carries information both to and from various internal organs, including the heart, lungs, and digestive system.

PTS:	1	DIF:	2	REF:	Page 47	OBJ:	2.7
KEY:	Factual	MSC:	New				



Briefly identify the structures labeled 1, 2, 3, and 4, and describe their functions.

ANS: Refer to Figure 2.23.

PTS:	1	DIF:	2	REF:	Page 49	OBJ:	2.7
KEY:	Factual	MSC:	New				

12. What are the major functions of the sympathetic and parasympathetic nervous systems?

ANS:

The sympathetic nervous system is active during periods of arousal, stress, and emergency, and prepares the body for "fight-or-flight." The parasympathetic nervous system is active during times of calm, and participates in the storage of nutrients and the repair of the body.

PTS:1DIF:2REF:Page 50OBJ:2.8KEY:FactualMSC:New

13. How has the human brain changed over the last 100,000 to 200,000 years?

ANS:

The human brain has changed surprisingly little over the last 100,000 to 200,000 years, in spite of advances such as agriculture and literacy.

PTS:	1	DIF:	1	REF:	Page 56	OBJ:	2.9
KEY:	Factual	MSC:	New				

ESSAY

Discovering Biological Psychology 2nd Edition Freberg Test Bank

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1. The actor Christopher Reeve damaged his cervical spinal cord during a tragic horseback riding accident. Based on your knowledge of the structure and functions of the spinal cord, what challenges did Reeve face as a result of his accident?

ANS: Answer not provided

PTS: 1 OBJ: 2.3

2. Emotion is processed at various levels in the brain. Why do you think we would see this apparent duplication of function?

ANS: Answer not provided

PTS: 1 OBJ: 2.4

3. Stress usually involves higher-than-normal levels of sympathetic arousal. Given your understanding of the autonomic nervous system, what effects might extended sympathetic arousal produce?

ANS: Answer not provided

PTS: 1 OBJ: 2.8