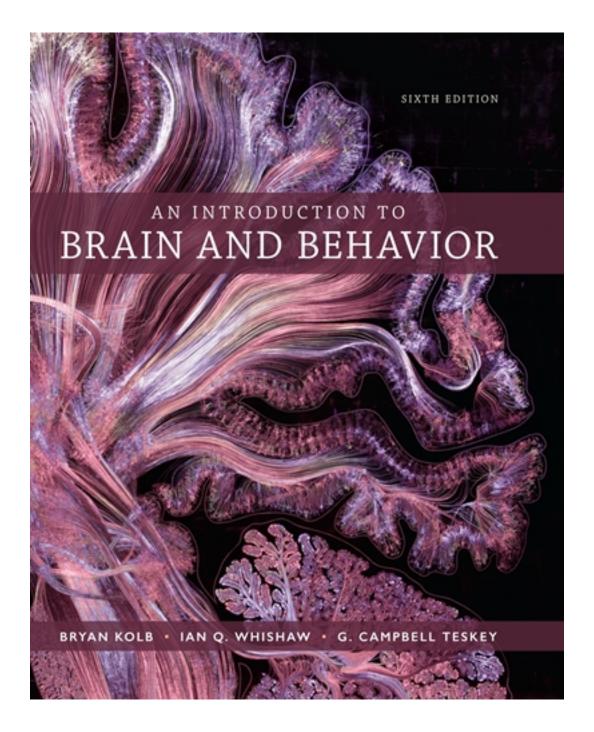
Test Bank for Introduction to Brain and Behavior 6th Edition by Kolb

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Test Bank

Name:	Class:	Date:
Chapter 02: Multiple Choice		
1. The cerebellum contains of all the a. 20 percentb. 50 percentc. 10 percentd. 80 percent	ne neurons in the adult human bra	in.
ANSWER: d		
 2. Neural agenesis refers to: a. an injury to a brain structure. b. the degeneration of a structure. c. the failure of a structure to develop d. the creation of a brain structure. ANSWER: c).	
3. If a tree falls in the forest, does it make		
a. Yes, because sound is a physical pl b. Yes, because if you record the nois c. No, because sound is a fabrication d. This is an unanswerable philosophic ANSWER: c	henomenon. se and play it again later, you will of the human brain.	hear it.
 4. Phenotypic plasticity refers to: a. how an organism's genotype can be b. how an organism's genetics can be c. the study of nervous system plastic d. None of the answers is correct. ANSWER: a	influenced by its nervous system.	
5. The CNS includes the, whereas a. brain and autonomic nervous system. b. spinal cord and autonomic nervous c. spinal cord and brain; autonomic n. d. somatic nervous system and brain; ANSWER: c	m; spinal cord and somatic nervous system; brain and somatic nervous ervous system and somatic nervous	us system us system
6. The somatic nervous system includes the authorized and parasympathetic description. Sympathetic and parasympathetic description and spinal cord; cranial nerves and spinal nerves; sy <i>ANSWER:</i> d	livisions; cranial nerves and spinal es and spinal nerves livisions; brain and spinal cord	l nerves

Name:	Class:	Date:
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Chapter 02: Multiple Choice

- 7. The subdivision of the nervous system that controls the gut is called the:
 - a. somatic nervous system.
 - b. enteric nervous system.
 - c. digestive nervous system.
 - d. autonomic nervous system.

ANSWER: b

- 8. The term *afferent* refers to _____ signals.
 - a. incoming
 - b. outgoing
 - c. different
 - d. similar

ANSWER: a

- 9. Efferent is to afferent as:
 - a. brain is to spinal cord.
 - b. sensory is to motor.
 - c. motor is to sensory.
 - d. incoming is to outgoing.

ANSWER: c

- 10. Afferent is to efferent as:
 - a. out is to in.
 - b. top is to bottom.
 - c. in is to out.
 - d. bottom is to top.

ANSWER: c

- 11. Moving from superficial layers to deep layers, in what order are the meninges found?
 - a. dura mater, arachnoid layer, pia mater
 - b. pia mater, arachnoid layer, dura mater
 - c. dura mater, pia mater, arachnoid layer
 - d. pia mater, dura mater, arachnoid layer

- 12. Brain nomenclature can be very confusing. This is because:
 - a. many structures have several names.
 - b. research on the brain includes scientists of many nationalities and languages.
 - c. some structures were named using numbers.
 - d. All of the answers are correct.

CLICK HERE TO ACCES	S THE COMPLETE Test Bank	
Name:	Class:	_Date:
Chapter 02: Multiple Choice		
ANSWER: d		
13. Structures atop the brain or a structure within the a. lateral.b. ventral.c. medial.d. dorsal. ANSWER: d	brain are:	
14. The ventral portion of a structure is sometimes can a superior.b. inferior.c. dorsal.d. medial. ANSWER: b	alled:	

- 15. Rostral is to caudal as:
 - a. superior is to inferior.
 - b. dorsal is to ventral.
 - c. medial is to lateral.
 - d. anterior is to posterior.

ANSWER: d

- 16. Coronal section is to horizontal section as:
 - a. frontal view is to dorsal view.
 - b. medial view is to frontal view.
 - c. frontal view is to medial view.
 - d. dorsal view is to medial view.

ANSWER: a

- 17. What best characterizes the composition of cerebrospinal fluid?
 - a. sodium chloride and other salts
 - b. essential amino acids
 - c. glucocorticoids
 - d. simple sugars and small lipids

- 18. Cerebrospinal fluid (CSF) flows between the:
 - a. arachnoid layer and pia mater.
 - b. dura mater and pia mater.
 - c. dura mater and arachnoid layer.

CLICK HER	RE TO ACCESS THE COMPLETE T	est Bank
Name:	Class:	Date:
Chapter 02: Multiple Choice		
d. superficial layer and deep layer	er.	
ANSWER: a		
19. The functions of the temporal lob	pes lie mainly in:	
a. decision making.		
b. hearing, language, and music.		
c. sensory processing and directi	ing movements toward objects.	
d. vision.		
ANSWER: b		
suffered damage to his:	as difficulty understanding language and	l music. He is most likely to have
a. frontal lobe.		
b. temporal lobe.		
c. occipital lobe.		
d. parietal lobe.		
ANSWER: b		
21. The frontal lobe is responsible fo	or controlling:	
a. decision making.		
b. hearing, language, and music.		
c. vision.		
d. sensory processing and directi	ing movements toward objects.	
ANSWER: a		
22. Following a brain injury, Suzann most likely to have suffered an injury	ne experiences difficulty with problem so y to her:	olving and decision making. She is
a. parietal lobe.		
b. occipital lobe.		
c. frontal lobe.		
d. temporal lobe.		
ANSWER: c		
23. The parietal lobe primarily contr	ols:	

- a. vision.
- b. hearing, language, and music.
- c. decision making.
- d. sensory processing and directing movements toward objects.

ANSWER: d

24. Soon after experiencing a stroke, Jim experiences difficulty with directing movements toward objects. The stroke is most likely to have occurred in his:

Name:	Class:	Date:

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- a. frontal lobe.
- b. temporal lobe.
- c. occipital lobe.
- d. parietal lobe.

ANSWER: d

- 25. The occipital lobe is responsible for:
 - a. sensory processing and directing movements toward objects.
 - b. decision making.
 - c. visual processing.
 - d. hearing, language, and music.

ANSWER: c

- 26. During a recent car accident, Allison suffered a brain injury that left her blind even though her eyes are working fine. She is most likely to have suffered damage to her:
 - a. occipital lobe.
 - b. frontal lobe.
 - c. temporal lobe.
 - d. parietal lobe.

ANSWER: a

- 27. Sulci are:
 - a. found only in the cerebellum.
 - b. found only in the cerebrum.
 - c. the cracks between the bumps on the brain.
 - d. the bumps on the surface of the brain.

ANSWER: c

- 28. Gyri are:
 - a. bumps on the surface of the cortex.
 - b. cracks on the surface of the cortex.
 - c. deformities on the surface of the cortex.
 - d. only found in the spinal cord.

ANSWER: a

- 29. Which of the following correctly describes the possible suite of symptoms associated with meningitis?
 - a. severe headache, stiff neck, convulsions
 - b. facial paralysis, limb paralysis, severe headache
 - c. aggressiveness, mood swings, personality changes
 - d. convulsions, vomiting, confusion

Name:	Class:	Date:
Chapter 02: Multiple Choice		
30. Sulcus is to gyrus as:		
a. crack is to bump.		
b. bump is to crack.		
c. ridge is to mountain.		
d. crack is to crevasse.		
ANSWER: a		
a. encephalitis	of the brain caused by invading viruses of	or microorganisms?
b. meningitis		
c. craniitis		
d. hemispheritis ANSWER: a		
ANSWER: a		
32. Which item is NOT a cerebral artoa. anteriorb. superiorc. middle	ery that acts as a major supplier to the co	erebrum?
d. posterior ANSWER: b		
33. The artery that provides blood to a anteriorb. middlec. posteriord. inferior	the lateral, temporal, and frontal lobes is	s the cerebral artery.
ANSWER: b		
34. The posterior cerebral artery prova. parietalb. frontalc. occipitald. exterior	ides blood to the lobe.	
ANSWER: c		
ANSWER: C		
35. A disruption of the blood supply ta. meningitis.b. encephalitis.	o a brain region causes:	
c. a stroke.		
d. cerebral agenesis.		

Name:	Class:	Date:
Chapter 02: Multiple Choice		
ANSWER: c		
36 is mainly composed of cell	bodies and capillaries.	
a. Reticular matter	•	
b. Gray matter		
c. The corpus callosum		
d. White matter		
ANSWER: b		
37 is (are) mainly composed of	f nerve fibers with fatty coverings.	
a. Cerebral aqueducts		
b. Ventricles		
c. White matter		
d. Gray matter		
ANSWER: c		
38. CSF is made in the:		
a. pia mater.		
b. dura mater.		
c. ventricles.		
d. arachnoid layer.		
ANSWER: c		
39. The large cavities inside the brain		
a. ventricles and are filled with C		
b. ventricles and are filled with bl		
c. the arachnoid layer and are fille		
d. the arachnoid layer and are fille	ed with blood.	
ANSWER: a		
40. Which of the following is a functi	on of CSF?	
a. acting as a shock absorber to the	e brain	
b. allowing certain compounds ac	cess	
c. helping the brain excrete metal	polic wastes from the brain	
d. All of the above are functions of	of CSF.	
ANSWER: a		
41. Ischemic stroke is caused by:		
a. a clot.		
b. a broken blood vessel.		

c. meningitis.

Name:	Class:	Date:
Chapter 02: Multiple Choice		
d. encephalitis.		
ANSWER: a		
42. A hemorrhagic stroke is caused by:		
a. a blood clot.		
b. a ruptured blood vessel.		
c. an embolism.		
d. All of the answers are correct.		
ANSWER: b		
43. Tissue plasminogen activator (t-PA) is a. ischemic stroke.	s effective for treating:	
b. hemorrhagic stroke.		
c. meningitis.		
d. All of the answers are correct.		
ANSWER: a		
44. When observing a sagittal brain sectio matter?	n at the midline, what is the prom	inent feature composed of white
a. corpus callosum		
b. ventricles		
c. cingulate cortex		
d. hippocampus		
ANSWER: a		
45. Cutting the brain from front to back w	ill give a view.	
a. coronal		
b. frontal		
c. horizontal		
d. sagittal		
ANSWER: d		
46. What does the behavior of octopi tell u	ıs about nervous system organizat	ion and intelligent behavior?
a. Only vertebrates have nervous syste		nt behavior.
b. Invertebrates are incapable of learn	= =	
c. Intelligent behavior does not requir		anization.
d. Intelligent behavior is linked to one	type of nervous system.	
ANSWER: c		

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47. The role of glial cells is primarily to:

a. carry out information processing in the brain.

Name:	Class:	Date:
Chapter 02: Multiple Choice		
b. send signals from one brain region	to another.	
c. modulate the activity of neurons.		
d. process sensory input.		
ANSWER: c		
48. CNS is to PNS as:		
a. neuron is to glia.		
b. gray matter is to white matter.		
c. nerve is to tract.		
d. tract is to nerve.		
ANSWER: d		
49. The prosencephalon is sometimes refo	erred to as the:	
a. hindbrain.		
b. middle brain.		
c. auxiliary brain.		
d. front brain.		
ANSWER: d		
50. In the human brain the basal ganglia,	limbic system, and olfactory bulbs	are considered part of the:
a. telencephalon.		
b. metencephalon.		
c. diencephalon.		
d. mesencephalon.		
ANSWER: a		
51. In the human brain the mesencephalo	n contains the:	
a. neocortex.		
b. cerebellum.		
c. tectum and tegmentum.		
d. medulla.		
ANSWER: c		
52. The thalamus and hypothalamus are c	considered part of the:	
a. myelencephalon.		
b. telencephalon.		
c. metencephalon.		

d. diencephalon.

ANSWER: d

53. Which of the following structures is NOT part of the metencephalon?

Name:	Class:	Date:

Chapter 02: Multiple Choice

- a. the cerebellum
- b. the pons
- c. the medulla
- d. None of the answers is correct.

ANSWER: c

- 54. Which of the following is NOT part of the hindbrain?
 - a. the pons
 - b. the tegmentum
 - c. the reticular formation
 - d. the medulla oblongata

ANSWER: b

- 55. Awakening from sleep is a function of the:
 - a. pons.
 - b. medulla.
 - c. cerebellum.
 - d. reticular formation.

ANSWER: d

- 56. The reticular formation is primarily made up of:
 - a. gray matter only.
 - b. white matter only.
 - c. gray matter and white matter.
 - d. None of the answers is correct.

ANSWER: c

- 57. The primary function of the cerebellum is:
 - a. control of sleeping and waking.
 - b. control of movement.
 - c. control of heart rate and respiration.
 - d. sensory processing.

ANSWER: b

- 58. Orienting responses (e.g., turning your head to locate the source of a sound) are controlled by the:
 - a. pons.
 - b. superior and inferior colliculi.
 - c. cerebellum.
 - d. diencephalon.

ANSWER: b

Name:	Class:	Date:
Chapter 02: Multiple Choice		
59. The red nucleus, substantia nigra, ar a. tectum.	nd periaqueductal gray matter are p	arts of the:
b. pons.c. tegmentum.		
d. reticular formation. ANSWER: c		
60. Regulation of breathing and the card	liovascular system is primarily con	trolled by the:
a. pons.b. reticular activating system.		
c. medulla.		
d. cerebellum.		
ANSWER: c		
61. What are the functions of the superi-	or and inferior colliculi, respectivel	y?
b. visual and auditory		
c. tactile and visual		
d. visual and tactile		
ANSWER: b		
62. Which of the following is part of the a. the tectum	e tegmentum?	
b. the substantia nigra		
c. the inferior colliculus		
d. the superior colliculus		
ANSWER: b		
63. The hypothalamus is NOT primarily a. motor movements.	involved in:	
b. sleeping.		
c. emotional behavior.		
d. sensory input.		
ANSWER: d		
64. Sexual behavior is a primary function	on of the:	

- a. thalamus.
- b. hypothalamus.
- c. gyrus fornicutus.
- d. red nucleus.

ANSWER: b

Name:	Class:	Date:
Chapter 02: Multiple Choice		
65. The acts as a sensory relathe cortex.	y station for signals arriving from sensor	ry receptors that are being sent to
a. pituitary		
b. pons		
c. hypothalamus		
d. thalamus		
ANSWER: b		
66. Thalamus is to hypothalamus as:		
a. sensory input is to body main	tenance.	
b. body maintenance is to senso	ry input.	
c. sexual behavior is to sleeping		
d. feeding is to endocrine function	on.	
ANSWER: a		
67. The lateral geniculate nucleus de	eals with:	
a. touch.		
b. hearing.		
c. olfaction.		
d. vision.		
ANSWER: d		
68. The primary function of the thal	amus is:	
a. transmission of sensory input	s to the cortex.	
b. regulation of hormone function	on.	
c. regulation of sleeping and wa	king.	
d. control of orienting responses		
ANSWER: a		
69. Which of the following is NOT	part of the forebrain?	
a. the cortex		
b. the tectum		
c. the basal ganglia		
d. the limbic system		
ANSWER: b		
70. The basal ganglia primarily cont	rols:	
a. decision making.		

b. voluntary movement.c. learning and memory.

Name:	Class:	Date:
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Chapter 02: Multiple Choice

d. processing of sound.

ANSWER: b

- 71. The part of the cortex that constructs a perceptual world and responds to that world is the:
 - a. limbic cortex.
 - b. cingulate cortex.
 - c. neocortex.
 - d. parahippocampal cortex.

ANSWER: c

- 72. Which of the following would likely occur if an individual's hippocampus were destroyed or damaged significantly?
 - a. The person would have problems with navigation and word finding.
 - b. The person would lose motor functions of their limbs.
 - c. The person would have difficulty remembering individuals who are close to him or her.
 - d. The person would not be able to speak.

ANSWER: a

- 73. What is the difference between the neocortex and the allocortex?
 - a. The neocortex controls motivational and emotional states, while the allocortex constructs a perceptual world and responds to that world.
 - b. The neocortex is part of the forebrain, while the allocortex is part of the hindbrain.
 - c. The allocortex controls motivational and emotional states, while the neocortex constructs a perceptual world and responds to that world.
 - d. The allocortex is part of the forebrain, while the neocortex is part of the hindbrain.

ANSWER: c

- 74. The allocortex contains which of the following structures?
 - a. the hippocampus and the amygdala
 - b. the hippocampus and the hypothalamus
 - c. the hypothalamus and the thalamus
 - d. the diencephalon and the amygdala

ANSWER: a

- 75. Why is the olfactory system unique among human senses?
 - a. The olfactory system is part of the limbic system.
 - b. The olfactory system is almost entirely a forebrain structure.
 - c. The olfactory system is almost entirely a hindbrain structure.
 - d. The olfactory system is one of the newest senses to have evolved in animals.

ANSWER: b

76. Deficits in processing basic visual information (e.g., luminance) are caused by damage to the: Copyright Macmillan Learning. Powered by Cognero.

Name:	Class:	Date:
Chapter 02: Multiple Choice		
a. frontal lobe.		
b. parietal lobe.		
c. occipital lobe.		
d. temporal lobe.		
ANSWER: c		
77. A person who has trouble locatin	g the source of stimulation on the skin mo	ost likely has damage to the:
a. temporal lobe.		
b. parietal lobe.		
c. occipital lobe.		
d. frontal lobe.		
ANSWER: b		
78. Trouble recognizing sounds is mo	ost commonly associated with damage to	the:
a. parietal lobe.		
b. frontal lobe.		
c. occipital lobe.		
d. temporal lobe.		
ANSWER: d		
79. Following a brain injury Steven haccomplish goals. Steven is most like a. frontal lobe.	has trouble organizing himself and has different to have damaged his:	ficulty formulating plans to
b. temporal lobe.		
c. parietal lobe.d. occipital lobe.		
ANSWER: a		
ANSWER: a		
80. Six layers of gray matter on top of a. limbic cortex.	of a layer of white matter would describe t	he:
b. basal ganglia.		
c. neocortex.		
d. cingulate cortex.		
ANSWER: c		
81. Why is the neocortex unlike mos	t other structures in the brain?	
a. It is connected to virtually all	other parts of the brain.	

ANSWER: a

b. It is not connected to any other part of the brain.c. It operates independently of other cranial structures.

d. It has only one thick layer of tissue, compared to other structures' many layers.

Name:	Class:	Date:
Chapter 02: Multiple Choice		
82. Imagine that you see a tree that you a. down-top processing b. top-down processing c. neocortical processing d. temporal processing	ou think looks like a heart. What type o	of cortical activity is this?
ANSWER: b		
83. Cortical regions: a. have the same density of cell l b. have different specific chemic c. when stained look the same ac d. have very specific functions as ANSWER: b	al characteristics. ross the various areas.	
84. Motor output signals are sent throa. V and VIb. I to IIIc. IVd. II ANSWER: a	ough layer(s) of the cortex.	
	ad by layar(a) af the contay	
85. Integrative functions are processea. V and VIb. I to IIIc. IVd. All of the answers are correct.	ed by layer(s) of the cortex.	
ANSWER: b		
86. Sensory inputs are transmitted that a. I to IIIb. V and VIc. IVd. All of the answers are correct.	rough layer(s) of the cortex.	
ANSWER: c		
87. Which conceptual system process a. limbic system b. basal ganglia c. thalamus	ses memory and emotion?	

d. parietal lobe

Name:	Class:	Date:
Chapter 02: Multiple Choice		
ANSWER: a		
88. The caudate nucleus and the putama. basal ganglia.b. limbic system.c. olfactory system.d. hindbrain.	en are part of the:	
ANSWER: a		
a. cerebellum.b. frontal lobes.c. basal ganglia.d. thalamus.	ndrome are neurological diseases assoc	iated with the:
ANSWER: c		
90. The hippocampus and the amygdala. basal ganglia systemb. limbic systemc. olfactory systemd. hindbrain system	a are hypothesized to be part of which	conceptual system?
ANSWER: b		
a. digestiveb. problem solvingc. sexuald. memory	e cortex participate in performing	_ functions.
ANSWER: d		
a. The term is obsolete.b. No scientists have agreed which	gued for retiring the term "limbic system structures are a part of it. gests that cognition is separate from en	
ANSWER: d		
93. Removal of the amygdala can lead a. changes in temperature regulation.		

c. emotional changes.

Name:	Class:	Date:
Chapter 02: Multiple Choice		
d. motor disruption. ANSWER: c		
b. The olfactory bulb is directly conc. The VNO contains pheromones.	d relays this information to the amyg	
95. There are pairs of cranial nerval a. 12 b. 24 c. 16 d. 8 ANSWER: a	ves.	
96. Sensory and motor signals from the a. lumbar sections of the spinal cord b. sacral portions of the spinal cord. c. the cranial nerves. d. thoracic sections of the spinal cord ANSWER: c	l.	
97. Sensory and motor signals to the arm a. sacral b. thoracic c. lumbar d. cervical ANSWER: d	ns are sent through sections of	the spinal cord.
98. Sensory and motor signals from the a. thoracic b. sacral c. lumbar d. None of the answers is correct. ANSWER: d	head and neck are sent to sect	ions of the spinal cord.
99. Dermatomes are associated with the a. peripheral nervous system b. somatic nervous system.	:	

Name: Class: Date:

Chapter 02: Multiple Choice

- c. autonomic nervous system.
- d. cranial nervous system.

ANSWER: b

- 100. The law of Bell and Magendie states that the:
 - a. dorsal spinal cord is motor and the ventral is sensory.
 - b. medial spinal cord is motor and the lateral is sensory.
 - c. dorsal spinal cord is sensory and the ventral is motor.
 - d. medial spinal cord is sensory and the lateral is motor.

ANSWER: c

- 101. Motor output from the spinal cord travels via the:
 - a. dorsal spinal cord.
 - b. ventral spinal cord.
 - c. medial spinal cord.
 - d. lateral spinal cord.

ANSWER: b

- 102. Sensory input to the spinal cord travels via the:
 - a. dorsal spinal cord.
 - b. ventral spinal cord.
 - c. medial spinal cord.
 - d. lateral spinal cord.

ANSWER: a

- 103. What process is responsible for allowing some chickens to run around even after their heads have been cut off?
 - a. integrating spinal functions
 - b. integrating cranial functions
 - c. parietal lobe functions
 - d. malfunction of the cranial nerve

ANSWER: b

- 104. Why is Bell palsy diagnosed by exclusion?
 - a. Bell palsy is caused by a wide array of factors.
 - b. Many factors can cause facial paralysis.
 - c. What causes Bell palsy is not yet understood.
 - d. Bell palsy is extremely rare.

ANSWER: b

105. What would happen to a person whose ANS shut down?

Name:	Class:	Date:
Chapter 02: Multiple Choice		
a. The person would see no real cha	nge in daily activities.	
b. The person would become slightly	y ill.	
c. The person would become very il	1.	
d. The person would die.		
ANSWER: d		
106. Why is the ENS sometimes called t	the second brain?	
a. It contains a wide range of neuron	n types.	
b. It contains the same chemical tran	nsmitters as the brain.	
c. It contains complex integrated ne	ural circuits.	
d. All of the above.		
ANSWER: d		
107. Increases in heart rate and inhibitio a. sympathetic nervous system.	n of digestion are controlled by the:	
b. parasympathetic nervous system.		
c. spinal nervous system.		
d. cranial nervous system.		
ANSWER: a		
108. The nervous system works to initiate fight-or-flight responses.	o help us "rest and digest," whereas the	nervous system helps
a. sympathetic; parasympathetic		
b. sympathetic; spinal		
c. parasympathetic; sympathetic		
d. somatic; parasympathetic		
ANSWER: c		
109. The vagus, facial, and oculomotor a. cranial nervous system.	nerves are the primary components of the:	
b. sympathetic nervous system.		
c. parasympathetic nervous system.		
d. spinal nervous system.		
ANSWER: c		
110. The contains a sheet of neur	ons lining the esophagus, stomach, small in	testine, and colon.
a. enteric nervous system (ENS)		
b. autonomic nervous system (ANS))	
c. somatic nervous system (SNS)		
d. central nervous system (CNS)		

Name:	Class:	Date:
Chapter 02: Multiple Choice		
111. What is the microbiome?		
a. the bacteria located in the mout	h	
b. the micro environment of the br	rain	
c. the bacteria located in the gut		
d. the microorganisms of the skin		
ANSWER: c		
112. The microbiome can be involved a. prescription of antibiotics.	in treatment of behavioral disorders thro	ough:
b. reduction in the number of micro	roorganisms in the ENS.	
c. administration of live microorg	anisms known as psychobiotics.	
d. removal of invasive microbiota	from the body.	
ANSWER: c	·	
113. The nervous system stores inforn	nation only if:	
a. it is a vertebrate nervous system	•	
b. neural connections change.		
c. neural connections do not change	ge.	
d. neurons fire at a certain frequen	ncy.	
ANSWER: b		
114. Language control is usually situa	ted in the:	
a. same place on both hemisphere	s.	
b. different locations on each hem	isphere.	
c. right hemisphere.		
d. left hemisphere.		
ANSWER: d		
115. The left hemisphere primarily co	ntrols functions on the side of the	body.
a. contralateral		
b. left		
c. ipsilateral		
d. None of the answers is correct.		
ANSWER: a		
116. Spatial navigation is controlled b a. the left hemisphere	y of the brain.	
b. both hemispheres		
c. the right hemisphere		
d. None of the answers is correct.		

Name:	Class:	Date:

Chapter 02: Multiple Choice

ANSWER: c

- 117. The brain appears to have:
 - a. mainly serial or hierarchical systems.
 - b. mainly parallel systems.
 - c. a combination of serial and parallel systems.
 - d. parallel systems at lower levels and serial processing farther up.

ANSWER: c

- 118. The notion of segregation of sensory and motor functions in the nervous system was postulated by:
 - a. François Magendie and David Bell.
 - b. David Hubel.
 - c. John Hughlings Jackson.
 - d. Nige Toretle.

ANSWER: a

- 119. Memory seems to be located:
 - a. in the cingulate gyrus.
 - b. in the hippocampus.
 - c. throughout the brain.
 - d. primarily in the temporal lobes.

ANSWER: c

- 120. Tourette syndrome and Parkinson disease result from:
 - a. changes in balance between excitation and inhibition.
 - b. malfunctioning of the microbiome.
 - c. too much excitation and inhibition.
 - d. the removal of the hippocampus.

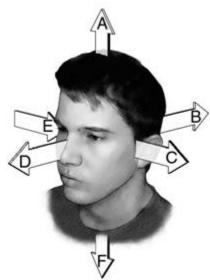
Name:	Class:	Date:
Chapter 02: Essay		
1. What are the major functions of the ce <i>ANSWER:</i>	rebellum?	
2. Identify the brain's primary functions. <i>ANSWER:</i>		
3. Define the terms <i>afferent</i> and <i>efferent</i> . <i>ANSWER:</i>		
4. List the meninges from the outside to <i>ANSWER:</i>	the surface of the brain. Where doe	es the cerebrospinal fluid flow?
5. Your friend acquired frontal lobe dam <i>ANSWER:</i>	age in a car accident. What sympto	oms is that person likely to display?
6. Differentiate between sulci and gyri. <i>ANSWER:</i>		
7. Differentiate between gray matter and <i>ANSWER:</i>	white matter.	
8. What do the ventricles do? <i>ANSWER:</i>		
9. What is a stroke? What are the two ma <i>ANSWER:</i>	njor types of stroke?	
10. Differentiate between glial cells and <i>ANSWER:</i>	neurons.	
11. List the primary divisions of the cent <i>ANSWER:</i>	ral nervous system.	
12. List the principal structures in the hir controlling? ANSWER:	ndbrain. Which types of behavior is	s the hindbrain responsible for
13. What are the major subdivisions and <i>ANSWER:</i>	structures within the midbrain?	
14. What are the functions of the hypothe <i>ANSWER:</i>	alamus?	
15. What are the principal structures and	functions of the diencephalon?	

ANSWER:

Name:	Class:	Date:
Chapter 02: Essay		
16. List the principal structures in the fore ANSWER:	ebrain.	
17. How many layers are there in the cere layers? ANSWER:	bral cortex? What are the function	ons of each of the different cortical
18. Describe the disorders that occur when ANSWER:	n the basal ganglia are not function	oning properly.
19. Explain and describe some of the miss construct. ANSWER:	givings neuroscientists have abou	at the limbic system as a theoretical
20. Define <i>dermatome</i> and match the five <i>ANSWER</i> :	spinal cord segments to the corre	ect dermatomes.
21. What are the differences between the <i>ANSWER</i> :	dorsal and ventral fibers of the sp	pinal cord?
22. If the enteric nervous system were ma	lfunctioning, which body proces	ses would be affected?
23. Differentiate between the sympathetic ANSWER:	and parasympathetic nervous sy	estems.
24. In relationship to the brain, what do th ANSWER:	ne terms symmetry and asymmetry	y mean?
25. What two pathways does the brain use ANSWER:	e to separate sensory input for ob	ject recognition and motor control?

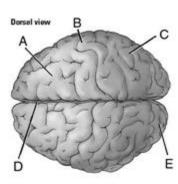
Chapter 02: Diagram

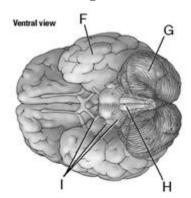
1. Match each letter to the correct anatomical term.



ANSWER: 1. F; 2. C; 3. A; 4. B; 5. E; 6. D

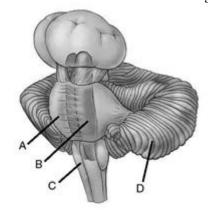
2. Match each letter to the correct location on the figure.





ANSWER: 1. E; 2. H; 3. F; 4. A; 5. D; 6. G; 7. I; 8. B; 9. C

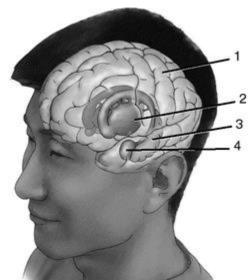
3. Locate the structures on the figure.



ANSWER: 1. D; 2. C; 3. B; 4. A

Chapter 02: Diagram

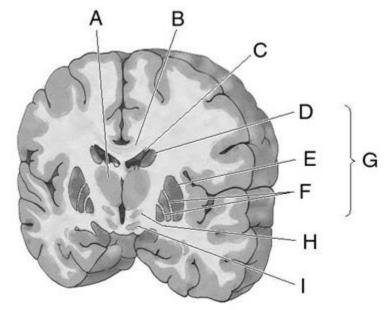
4. Label the brain structures on the figure.



- 1. ____
- 2. _____
- 3. ____
- 4.

ANSWER: 1. neocortex; 2. basal ganglia; 3. hippocampus; 4. amygdala

5. Match each letter to the correct brain structure.



ANSWER: 1. D; 2. C; 3. G; 4. I; 5. H; 6. A; 7. E; 8. F; 9. B