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72

Chapter 02: The Biological Perspective

Chapter 02 Multiple Choice Questions

1. The function of the _____ is to carry information to and from all parts of the body.

soma synapse nervous system endorphins

Difficulty: 1

QuestionID: 02-1-01 Page-Reference: 42

Topic: An Overview of the Nervous System

Skill: F Objective: 2.1

Answer: nervous system

2. The nervous system is defined as _____

a complex network of cells that carries information to and from all parts of the body a specialized cell that makes up the brain and nervous system all nerves and neurons that are not contained in the brain and spinal cord but that run throughout the body itself

a gland located in the brain that secretes human growth hormone

Difficulty: 1
QuestionID: 02-1-02
Page-Reference: 42

Topic: An Overview of the Nervous System

Skill: F Objective: 2.1

Answer: a complex network of cells that carries information to and from all parts of the body

3. The two main divisions of the nervous system are the _____ and _____

brain; spinal cord autonomic nervous system; somatic nervous system peripheral nervous system; central nervous system glands; muscles

Difficulty: 1
QuestionID: 02-1-03
Page-Reference: 42

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: peripheral nervous system; central nervous system

while also foc	life sciences that involves the structure and function of the brain and nervous system, using on the relationship between learning and behaviour, is called
neurosc	
bioscien	ce entology
neuroste	
Difficulty:	1
QuestionID:	02-1-04
Page-Reference:	Nowana and Names. Building the Nationals
Topic: Skill:	Neurons and Nerves—Building the Network F
Objective:	2.1
Answer: neur	roscience
	cell that makes up the nervous system and that receives and sends messages within
	called a
glial cell	
neuron cell body	
myelin s	
Difficulty:	1
QuestionID: Page-Reference:	02-1-05 42
Topic:	Neurons and Nerves—Building the Network
Skill:	F
Objective:	2.1
Answer: neur	ron
	used to describe a specialized cell that makes up the nervous system and that receives essages within that system?
neuron	
glial cell	
myelin s	
dendritio	spine
Difficulty:	1
QuestionID:	02-1-06
Page-Reference:	42
Topic:	Neurons and Nerves—Building the Network
Skill: Objective:	F 2.1
Objective.	2.1
Answer: neur	ron
7. The part of the	e neuron whose name literally means "branch" is
axon	
dendrite	
myelin	
soma	

Difficulty: 1

QuestionID: 02-1-07 Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: dendrite

8. The branchlike structures that receive messages from other neurons are called ______.

axons

nerve bundles dendrites synapses

Difficulty: 1

QuestionID: 02-1-08 Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: dendrites

9. Which part of the neuron is responsible for maintaining the life of the cell?

axon soma dendrite cell membrane

Difficulty: 2

QuestionID: 02-1-09 Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: soma

10. The part of a neuron that contains the nucleus and keeps the entire cell alive and functioning is the

axon cell membrane dendrite

soma

Difficulty: 1
QuestionID: 02-1-10
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Answer: soma

11. Which part of a neuron is attached to the soma and carries messages out to other cells?

soma axon dendrite cell membrane

Difficulty: 1

QuestionID: 02-1-11 Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: axon

12. The function of the neuron's axon is to _____

carry messages to other cells regulate the neuron's life processes receive messages from neighbouring neurons insulate against leakage of electrical impulses

Difficulty: 2
QuestionID: 02-1-12
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: carry messages to other cells

13. _____ receive messages from other neurons and _____ send messages to other

neurons.

Axons; dendrites Axons; soma Soma; glial cells Dendrites; axons

Difficulty: 2
QuestionID: 02-1-13
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1

Answer: Dendrites; axons

14. Dendrite is to axon as

send is to receive. send is to regulate. receive is to send. receive is to release.

Difficulty: 2
QuestionID: 02-1-14
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1

Answer: receive is to send.

15. It is now believed that neurons make up between _____ percent of the brain, whereas glial cells make up _____ percent.

10 and 50; 50 5 and 10; 20

> 60 and 70; 30 80 and 90; 10

Difficulty: 2
QuestionID: 02-1-15
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: 10 and 50; 50

16. Glial cells are now believed to make up _____ of the brain's cells.

10 percent 70 percent 50 percent 90 percent

Difficulty: 3
QuestionID: 02-1-16
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: 50 percent

17. What are two roles of glial cells?

acting as insulation and providing structure to surrounding neurons shaping cells and moving new neurons into place regulating metabolic activity and serving as pain detectors monitoring neural transmission and releasing hormones in the brain

Difficulty: 3
QuestionID: 02-1-17
Page-Reference: 43-44

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1

Answer: acting as insulation and providing structure to surrounding neurons

18. Two types of glial cells, called _____ and ____, generate myelin.

occipital; lobitical

oligodendrocytes; Schwann cells

occipital; Schwann cells oligodendrocytes; lobitical

Difficulty: 3
QuestionID: 02-1-18
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: oligodendrocytes; Schwann cells

19. A cell in the human nervous system whose primary function is to provide insulation and structure for neurons on which they may develop and work is called a(n)

epidermal cell adipose cell glial cell myelin cell

Difficulty: 2 QuestionID: 02-1-19 Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: glial cell

20. What is the function of myelin?

to serve as a structure for neurons to monitor neural activity to speed up the neural impulse to produce neurotransmitters

Difficulty: 2
QuestionID: 02-1-20
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Answer: to speed up the neural impulse

21. A fatty substance wrapped around the shaft of axons in the nervous system and whose function is to insulate neurons and speed up the neural impulse is called (a) ______.

synaptic vesicle dendrite glial cell myelin

Difficulty: 2 QuestionID: 02-1-21 Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: myelin

22. Which of the following is true about myelin?

It is a fatty substance. It is covered by axons.

It inhibits neural communication. It slows down neuronal operations.

Difficulty: 2
QuestionID: 02-1-22
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: It is a fatty substance.

23. One purpose of the _____ is to speed up the neural message travelling down the axon.

receptor site axon terminal myelin

synaptic vesicle

Difficulty: 2
QuestionID: 02-1-23
Page-Reference: 43

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1

Answer: myelin

24. Groups o	of myelin-coated axons that travel together through the body are called
	ynaptic vesicle
_	'Ves
	urilemma nyelinated pathway
ifficulty: uestionID:	1 02-1-24
age-Reference	
opic:	Neurons and Nerves—Building the Network
kill:	F
bjective:	2.1
Answer:	nerves
25. A nerve i	s a group of bundled together.
axo	ons
	erneurons
	ndrites
glia	al cells
ifficulty:	2
uestionID:	02-1-25
age-Reference	
opic: kill:	Neurons and Nerves—Building the Network F
bjective:	2.1
Answer:	axons
	nterested in decreasing her risk for multiple sclerosis. Which of the following would mo
•	y indoors to avoid pollution.
	ke vitamin D supplements.
	oid fried foods.
De	crease her physical activity.
ifficulty:	2
uestionID:	02-1-26
age-Reference	
opic: kill:	Neurons and Nerves—Building the Network A
bjective:	2.1
Answer:	Take vitamin D supplements.
27 The char	ge that a neuron at rest maintains is due to the presence of a high number of

charged ions inside the neuron's membrane.

actively passively negatively positively Difficulty: 2 QuestionID: 02-1-27 Page-Reference: 44

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1

Answer: negatively

28. The state during which a neuron contains more negatively charged ions inside the cell than outside the cell and is not firing is referred to as the ______.

action potential guiet potential

synaptic membrane potential resting membrane potential

Difficulty: 2
QuestionID: 02-1-28
Page-Reference: 45

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: resting membrane potential

29. When a cell is "at rest," it is in a state called the ______.

stopping point obcipitation junction resting membrane potential

action notantial

action potential

Difficulty: 1

QuestionID: 02-1-29 **Page-Reference:** 45

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1

Answer: resting membrane potential

30. What do we call the state of a neuron when it is not firing a neural impulse?

action potential

resting membrane potential

myelination signal transmission impulse

Difficulty: 1

QuestionID: 02-1-30 Page-Reference: 45

Topic: Neurons and Nerves—Building the Network

Answer: resting membrane potential

31. When the electric potential in a cell is in action versus a resting state, this electrical charge reversal is known as the

resting membrane potential

excitation reaction action potential permeable reaction

Difficulty: 1

QuestionID: 02-1-31 Page-Reference: 45

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1

Answer: action potential

32. During the action potential, the electrical charge inside the neuron is _____ the electrical charge outside the neuron.

positive compared to

larger than

negative compared to

smaller than

Difficulty: 2
QuestionID: 02-1-32
Page-Reference: 45

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1

Answer: positive compared to

33. When a neuron fires, it fires in a(n) _____ fashion, as there is no such thing as "partial" firing.

all-or-none rapid fire

accidental patterned quick successioned

Difficulty: 2
QuestionID: 02-1-33
Page-Reference: 46

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1

Answer: all-or-none

34. "All or none" is the principle stating that _____.

a neuron either fires at full strength or does not fire at all.
a neuron fires either in a completely agonist fashion or in a completely antagonist fashion.
all of the dendrites must be receiving messages telling the neuron to fire or it will not fire at all.
all somas must be receiving messages telling the neuron to fire or it will not fire at all.

Difficulty: 2
QuestionID: 02-1-34
Page-Reference: 46

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.1

Answer: a neuron either fires at full strength or does not fire at all.

35. Your teacher asks you to describe the sequence of parts of a neuron that the impulse travels down during neural conduction. Which of the following sequences will you offer?

dendrites, axon, soma, synaptic knob terminal buttons, axon, soma, dendrites axon, soma, dendrites, synaptic knob dendrites, soma, axon, synaptic knob

Difficulty: 3
QuestionID: 02-1-35
Page-Reference: 43-47

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.1-2.2

Answer: dendrites, soma, axon, synaptic knob

36. The branches at the end of the axon are called .

axon terminals synaptic vesicles synapses receptor sites

Difficulty: 1

QuestionID: 02-1-36 Page-Reference: 47

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: axon terminals

37. What is the term used to describe the branches located at the end of the axon?

axon terminals synaptic vesicles synapses receptor sites Difficulty: 2 QuestionID: 02-1-37 Page-Reference: 47

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: axon terminals

38. What is the term used to describe the rounded areas on the ends of the axon terminals?

synaptic vesicles

axons dendrites synaptic knobs

Difficulty: 2
QuestionID: 02-1-38
Page-Reference: 47

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: synaptic knobs

39. The saclike structures found inside the synaptic knob containing chemicals are called _____

axon terminals synapses synaptic vesicles

synaptic vesicles receptor sites

Difficulty: 1

QuestionID: 02-1-39 **Page-Reference:** 47

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: synaptic vesicles

40. Which of the following are tiny sacs in a synaptic knob that release chemicals into the synapse?

synaptic vesicles synaptic nodes terminal buttons synaptic gaps

Difficulty: 2
QuestionID: 02-1-40
Page-Reference: 47

Topic: Neurons and Nerves—Building the Network

Answer: synaptic vesicles

41. A chemical found in the synaptic vesicles that, when released, has an effect on the next cell is called a

glial cell neurotransmitter precursor cell synapse

Difficulty: 1
QuestionID: 02-1-41
Page-Reference: 47

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: neurotransmitter

42. The term neurotransmitter refers to ______

a chemical found in the synaptic vesicles that is released into the synapse any one of a number of chemical compounds that increase the activity of the endocrine system the chemical substance found in the cell membrane the DNA contained in the nucleus of every neuron

Difficulty: 2 QuestionID: 02-1-42 Page-Reference: 47

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: a chemical found in the synaptic vesicles that is released into the synapse

43. The fluid-filled space between the synaptic knob of one cell and the dendrites of the next cell is called the

receptor site synapse synaptic knob axon terminal

Difficulty: 1

QuestionID: 02-1-43 Page-Reference: 48

Topic: Neurons and Nerves—Building the Network

Skill: F
Objective: 2.2

Answer: synapse

N A S	are holes in the surface of the dendrites or certain cells of the muscles and glands that ped to fit only certain neurotransmitters. leurotransmitters xons ynaptic vesicles
Difficulty: QuestionID: Page-Referen Topic: Skill: Objective:	ceceptor sites 1 02-1-44 ce: 48 Neurons and Nerves—Building the Network F 2.2
Answe	r: Receptor sites
45. Which	structure is like a locked door that only certain neurotransmitter keys can unlock?
re ne	ynapses eceptor sites eural chiasms esponse terminals
Difficulty: QuestionID: Page-Referen Topic: Skill: Objective:	2 02-1-45 ce: 48 Neurons and Nerves—Building the Network C 2.2
Answe	r: receptor sites
46. The act	ion potential causes neurotransmitters to be released into the
a sy	nyelin sheath xon ynapse ynaptic vesicle
Difficulty: QuestionID: Page-Referen Topic: Skill: Objective:	2 02-1-46 ce: 48 Neurons and Nerves—Building the Network F 2.2
Answei	r: synapse
47. The pro with red di in in	cess that is associated with neurotransmitter molecules floating across the synapse to bind ceptor sites is iffusion function which is a second or support the synapse to bind ceptor sites is Inhibition equation the synapse to bind capture and support the synapse to be support

Difficulty: 2
QuestionID: 02-1-47
Page-Reference: 48

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: diffusion

48. _____ neurotransmitters make it more likely that a neuron will send its message to other neurons, whereas _____ neurotransmitters make it less likely that a neuron will send its message.

Excitatory; inhibitory Inhibitory; excitatory Augmentation; depletion Depletion; augmentation

Difficulty: 2
QuestionID: 02-1-48
Page-Reference: 48

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.2

Answer: Excitatory; inhibitory

49. Curare, a poison, works by .

blocking receptor sites and acting as an antagonist for acetylcholine stimulating the release of excessive amounts of acetylcholine stimulating the release of neurotransmitters inhibiting the production of inhibitory neurotransmitters

Difficulty: 3
QuestionID: 02-1-49
Page-Reference: 48

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.2

Answer: blocking receptor sites and acting as an antagonist for acetylcholine

50. After being bitten by a black widow spider, Jean starts to convulse. This is a result of _____.

a lack of GABA being released into her bloodstream

a resurgence of neurotransmitters overstimulating her brainstem

a surge of chemicals blocking the transmission of fluids to the spinal cord

a flood of acetylcholine releasing into the body's muscle system

Difficulty: 3
QuestionID: 02-1-50
Page-Reference: 48

Topic: Neurons and Nerves—Building the Network

Answer: a flood of acetylcholine releasing into the body's muscle system

51. _____ plays a critical role as a neurotransmitter that stimulates muscles to contract.

Acetylcholine GABA Dopamine Endorphin

Difficulty: 1

QuestionID: 02-1-51 Page-Reference: 48

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: Acetylcholine

52. Sara has been experiencing a serious memory problem. An interdisciplinary team has ruled out a range of causes and believes that a neurotransmitter is involved. Which neurotransmitter is most likely involved in this problem?

GABA dopamine serotonin acetylcholine

Difficulty: 2

QuestionID: 02-1-52 Page-Reference: 49

Topic: Neurons and Nerves—Building the Network

Skill: A Objective: 2.2

Answer: acetylcholine

53. The poison of the black widow spider works by stimulating the release of excessive amounts of

acetylcholine dopamine endorphins serotonin

Difficulty: 3
QuestionID: 02-1-53
Page-Reference: 48-49

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: acetylcholine

54. Endorphins	are
found	where neurons meet skeletal muscles
	owerful than enkaphalins
	ontrolling chemicals
radica	Ily different in function from neurotransmitters
Difficulty:	2
QuestionID:	02-1-54
Page-Reference:	49
Topic:	Neurons and Nerves—Building the Network
Skill:	F
Objective:	2.2
Answer: pa	ain-controlling chemicals
55. Pain-contro	Iling chemicals in the body are called
	l regulators
histan	
andro	
endor	onins
Difficulty:	1
QuestionID:	02-1-55
Page-Reference:	
Topic:	Neurons and Nerves—Building the Network
Skill:	F
Objective:	2.2
Answer: er	ndorphins
	ey have similar chemical structures, morphine and other opiates are able to lock into es for
GABA	
seroto	
dopan	
endor	
Difficulty:	3
QuestionID:	02-1-56
Page-Reference:	49
Topic:	Neurons and Nerves—Building the Network
Skill:	F
Objective:	2.2
Answer: er	ndorphins
57. Reuptake is	·
	mical that is released into the synaptic gap
	ein molecule on the dendrite or cell body of a neuron that will interact only with specific
	transmitters
a proc	ess by which neurotransmitters are sucked back into the synaptic vesicles

a chemical that plays a role in learning and attention

Difficulty: 1

QuestionID: 02-1-57 Page-Reference: 50

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: a process by which neurotransmitters are sucked back into the synaptic vesicles

58. Isabella is putting mustard on her hot dog. She realizes that she has put on too much and sucks some of it back into the squeeze bottle. This process is similar to

the action potential. receptor site bindings. binding specificity. reuptake.

Difficulty: 3
QuestionID: 02-1-58
Page-Reference: 50

Topic: Neurons and Nerves—Building the Network

Skill: A Objective: 2.2

Answer: reuptake.

59. How is acetylcholine removed from the synapse?

It is broken down by an enzyme. It is taken back up in the synapse.

It dissipates in the surrounding body fluids.

Acetylcholine is one of the few neurotransmitters that is continually present in the synapse.

Difficulty: 3
QuestionID: 02-1-59
Page-Reference: 50

Topic: Neurons and Nerves—Building the Network

Skill: C Objective: 2.2

Answer: It is broken down by an enzyme.

60. GABA functions as _____

the major neurotransmitter involved in voluntary movements an inhibitory neurotransmitter in the brain the neurotransmitter responsible for slowing intestinal activity during stress the major excitatory neurotransmitter in the brain

ltvr. 2

Difficulty: 2
QuestionID: 02-1-60
Page-Reference: 50

Topic: Neurons and Nerves—Building the Network

Answer: an inhibitory neurotransmitter in the brain

61. Which of the following neurotransmitters functions as a common inhibitory neurotransmitter in the brain?

serotonin GABA acetylcholine norepinephrine

Difficulty: 1

QuestionID: 02-1-61 **Page-Reference:** 50

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: GABA

62. Which neurotransmitter is associated with mood and depression?

GABA serotonin dopamine acetylcholine

Difficulty: 1

QuestionID: 02-1-62 **Page-Reference:** 50-51

Topic: Neurons and Nerves—Building the Network

Skill: F Objective: 2.2

Answer: serotonin

63. Andy has decided to seek medical help for mood disturbances and appetite problems. Which neurotransmitter is most likely involved in the problems that Andy is experiencing?

GABA dopamine serotonin acetylcholine

Difficulty: 2
QuestionID: 02-1-63
Page-Reference: 50-51

Topic: Neurons and Nerves—Building the Network

Skill: A Objective: 2.2

Answer: serotonin

interneurons

64. The brain an	d spinal cord are two components of the
somation periphe	nervous system c nervous system eral nervous system mic nervous system
Difficulty: QuestionID: Page-Reference: Topic: Skill: Objective:	1 02-1-64 51 The Central Nervous System – The "Central Processing Unit" F 2.3
Answer: cer	ntral nervous system
65. The central r	nervous system consists of
the bra muscle	rasympathetic and sympathetic divisions nin and spinal cord es and glands organs and sensory neurons
Difficulty: QuestionID: Page-Reference: Topic: Skill: Objective:	1 02-1-65 51 The Central Nervous System – The "Central Processing Unit" F 2.3
Answer: the	brain and spinal cord
	s s
Difficulty: QuestionID: Page-Reference: Topic: Skill: Objective:	1 02-1-66 51 The Central Nervous System – The "Central Processing Unit" F 2.3
Answer: bra	ain

Difficulty: 1

QuestionID: 02-1-67 Page-Reference: 51

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: F Objective: 2.3

Answer: spinal cord

68. Which of the following is a long bundle of neurons that functions as a carrier of messages from the body to the brain and from the brain to the body and is responsible for certain reflexes?

spinal cord cerebellum

somatic nervous system

amygdala

Difficulty: 2
QuestionID: 02-1-68
Page-Reference: 51-52

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: F Objective: 2.3

Answer: spinal cord

69. Which of the following are the three basic types of neurons?

reflexes, sensory neurons, motor neurons sensory neurons, motor neurons, stem cells

motor neurons, stem cells, reflexes

interneurons, sensory neurons, motor neurons

Difficulty: 1

QuestionID: 02-1-69 **Page-Reference:** 52

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: F Objective: 2.3

Answer: interneurons, sensory neurons, motor neurons

70. Neurons that carry information from the senses to the spinal cord are called _____

motor neurons interneurons sensory neurons

reflexes

Difficulty:

QuestionID: 02-1-70 Page-Reference: 52

Topic: The Central Nervous System – The "Central Processing Unit"

Answer: sensory neurons

71. LaKeisha stepped on a piece of glass and quickly pulled her foot away from that sharp object. Which of the following are responsible for sending a message to the muscles in LaKeisha's foot, resulting in her pulling her foot away from the piece of glass?

motor neurons interneurons sensory neurons reflexes

Difficulty: 3
QuestionID: 02-1-71
Page-Reference: 52

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: A
Objective: 2.3

Answer: motor neurons

72. Neurons found in the centre of the spinal cord that receive information from the sensory neurons and send commands to the muscles through the motor neurons are called ______.

motor neurons interneurons sensory neurons

reflexes

Difficulty: 1

QuestionID: 02-1-72 Page-Reference: 52

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: F Objective: 2.3

Answer: interneurons

73. Which of the following are responsible for acting as a facilitator of communication between neurons?

motor neurons interneurons sensory neurons

reflexes

Difficulty: 3
QuestionID: 02-1-73
Page-Reference: 52

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: C Objective: 2.3

Answer: interneurons

74. Mary put her hand on a hot stove. Which neuron is responsible for sending a pain message up her spinal column, where it would then enter the main area of the cord?

motor neuron interneuron sensory neuron reflex

Difficulty: 2
QuestionID: 02-1-74
Page-Reference: 52

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: A Objective: 2.3

Answer: sensory neuron

75. Cameron touches a hot iron and immediately pulls his hand away. His quick response occurs because

the pain message goes up the spinal column to the central area of the spinal cord instead of going all the way to the brain

the brain has registered that pain is occurring and responds quickly his glands have secreted chemical messengers called hormones

neurons in the spinal cord touch end to end to increase response speed

Difficulty: 3
QuestionID: 02-1-75
Page-Reference: 52-53

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: A Objective: 2.3

Answer: the pain message goes up the spinal column to the central area of the spinal cord instead of going all the way to the brain

76. Why do many reflexes, such as pulling your hand away from a hot iron, happen so quickly?

They involve the neurotransmitter GABA rather than dopamine.

The message involved does not have to go all the way to the brain.

The speed of processing is faster in the frontal lobes than in the occipital lobes.

The path that reflexes follow to the brain is direct and does not involve any neurotransmitters.

Difficulty: 3
QuestionID: 02-1-76
Page-Reference: 53

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: A
Objective: 2.3

Answer: The message involved does not have to go all the way to the brain.

77. Jack suffered a brain injury as a result of hitting his head while waterskiing. One of the problems that developed was that Jack could not pronounce certain words correctly for a long period, until he had extensive speech therapy. He can now speak as he did before his accident. This is an example of the brain's _____, which allowed the structure and function of his brain cells to change to adjust to the trauma.

adaptology stagnation neuroplasticity reflex arc

Difficulty: 2
QuestionID: 02-1-77
Page-Reference: 53

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: A
Objective: 2.3

Answer: neuroplasticity

78. Karen's 80-year-old grandmother has been learning to play piano and is improving steadily. Based on Canadian research on neuroplasticity, Karen might conclude that her grandmother's

production of serotonin has increased glial cells are helping her neurons to form new connections brain is growing new neurons stem cells are producing new neurons

Difficulty: 3
QuestionID: 02-1-78
Page-Reference: 53

Topic: The Central Nervous System – The "Central Processing Unit"

Skill: A Objective: 2.3

Answer: glial cells are helping her neurons to form new connections

79. The peripheral nervous system consists of _____

all nerve cells that are not in the brain and spinal cord all nerves in the brain and spinal cord the spinal cord and the autonomic system the brain and the autonomic system

Difficulty: 1
QuestionID: 02-1-79

Page-Reference: 54

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: F Objective: 2.4

Answer: all nerve cells that are not in the brain and spinal cord

80. The division of the nervous system that allows the brain and the spinal cord to communicate with the sensory systems of the eyes, ears, skin, and mouth and that allows the brain and spinal cord to control the muscles and glands of the body is called the

peripheral nervous system central nervous system endocrine system secondary nervous system

Difficulty: 1

QuestionID: 02-1-80 Page-Reference: 54

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: F Objective: 2.4

Answer: peripheral nervous system

81. The peripheral nervous system consists of the _____ and the ____ nervous systems.

autonomic; somatic autonomic; sympathetic parasympathetic; somatic parasympathetic; sympathetic

Difficulty: 2
QuestionID: 02-1-81
Page-Reference: 54

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: C Objective: 2.4

Answer: autonomic; somatic

82. The subdivision of the peripheral nervous system that is made up of all nerves carrying messages from the senses to the central nervous system and all nerves carrying messages from the central nervous system to skeletal muscles is called the

autonomic nervous system parasympathetic nervous system somatic nervous system central nervous system

Difficulty: 1
QuestionID: 02-1-82
Page-Reference: 54

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: F
Objective: 2.4

Answer: somatic nervous system

skin, muscle autono sensor motor p	eral nervous system, carry messages from special sense receptors in the s, and other internal and external sense organs to the spinal cord. mic nerves y pathway neurons bathway neurons mic neurons mic neurons
Difficulty: QuestionID: Page-Reference: Topic: Skill: Objective:	1 02-1-83 54 The Peripheral Nervous System—Nerves on the Edge F 2.4
Answer: ser	nsory pathway neurons
being contro the aut sensor motor p	rping on the computer keyboard. The motion of his fingers on the keys is probably lled by onomic nervous system y pathway neurons pathway neurons mic neurons
Difficulty: QuestionID: Page-Reference: Topic: Skill: Objective:	3 02-1-84 54 The Peripheral Nervous System—Nerves on the Edge A 2.4
Answer: mo	tor pathway neurons
flower, invol sympat somatic	c mpathetic
Difficulty: QuestionID: Page-Reference: Topic: Skill: Objective:	2 02-1-85 54 The Peripheral Nervous System—Nerves on the Edge A 2.4
Answer: sor	matic
86. Voluntary mi	uscles are controlled by the nervous system.
somatic autono sympat	c mic

Difficulty: QuestionID: 02-1-86 Page-Reference: 54 Topic: The Peripheral Nervous System—Nerves on the Edge Skill: Objective: 2.4 Answer: somatic 87. As she walks out of the living room, Gloria turns out the light. In this example, Gloria's is active. sympathetic nervous system parasympathetic nervous system autonomic nervous system somatic nervous system Difficulty: 2 02-1-87 QuestionID: Page-Reference: 54 Topic: The Peripheral Nervous System—Nerves on the Edge Skill: Objective: 2.4 **Answer:** somatic nervous system 88. Involuntary muscles are controlled by the _____ nervous system. somatic autonomic sympathetic parasympathetic Difficulty: QuestionID: 02-1-88 Page-Reference: 55 Topic: The Peripheral Nervous System—Nerves on the Edge Skill: F Objective: 2.4 Answer: autonomic

89. The subdivision of the peripheral nervous system that consists of nerves that control all of the involuntary muscles, organs, and glands is called the _____ nervous system.

somatic autonomic sympathetic parasympathetic

Difficulty: 1

QuestionID: 02-1-89 Page-Reference: 55

Topic: The Peripheral Nervous System—Nerves on the Edge

Answer: autonomic

90. When you see someone you have a crush on and your heart pounds, your hands get sweaty, and your cheeks feel hot, your _____ is/are active.

skeletal nervous system

spinal reflexes

autonomic nervous system somatic nervous system

Difficulty: 2
QuestionID: 02-1-90
Page-Reference: 55

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: A Objective: 2.4

Answer: autonomic nervous system

91. The autonomic nervous system has two divisions called the _____ and the _____

central; peripheral

sympathetic; parasympathetic

receptors; effectors limbic; endocrine

Difficulty: 1

QuestionID: 02-1-91 Page-Reference: 55

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: F Objective: 2.4

Answer: sympathetic; parasympathetic

92. Which component of the nervous system mobilizes the body in times of stress?

central somatic sympathetic parasympathetic

Difficulty: 2 QuestionID: 02-1-92 Page-Reference: 55-56

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: C Objective: 2.4

Answer: sympathetic

93. The part of the autonomic nervous system that is responsible for reacting to stressful events and bodily arousal is called the _____ nervous system.

central somatic sympathetic parasympathetic

Difficulty:

QuestionID: 02-1-93 Page-Reference: 55

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: F Objective: 2.4

Answer: sympathetic

94. As Molly is walking across campus, a car swerves toward her. Her heart races and sweat breaks out as she jumps out of harm's way. This mobilization of energy is due to the action of Molly's

somatic nervous system skeletal nervous system

55

parasympathetic nervous system sympathetic nervous system

Difficulty: 02-1-94 QuestionID: Page-Reference:

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: Α Objective: 2.4

Answer: sympathetic nervous system

95. The branch of the autonomic nervous system that restores the body to normal functioning after arousal and is responsible for day-to-day functioning of the organs and glands is called the

spinal cord

somatic nervous system sympathetic nervous system parasympathetic nervous system

Difficulty:

QuestionID: 02-1-95 Page-Reference: 56

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: F Objective: 2.4

Answer: parasympathetic nervous system

96. Malcolm is studying alone in his room late at night when he hears a loud noise downstairs. His heartbeat increases significantly and his breathing becomes shallow. He wonders if a burglar has entered the house and decides to investigate. When he gets downstairs, he discovers that his cat has knocked over a plant stand. His body begins to relax and return to normal. Which part of his nervous system is responsible for returning Malcolm to a normal state?

spinal cord somatic nervous system sympathetic nervous system parasympathetic nervous system

Difficulty: 2
QuestionID: 02-1-96
Page-Reference: 56

Topic: The Peripheral Nervous System—Nerves on the Edge

Skill: A
Objective: 2.4

Answer: parasympathetic nervous system

97. Endocrine glands _____.

secrete hormones directly into the bloodstream are chemicals released into the bloodstream are an extensive network of specialized cells are a thin layer of cells coating the axons

Difficulty: 1

QuestionID: 02-1-97 **Page-Reference:** 57

Topic: Distant Connections—The Endocrine Glands

Skill: F Objective: 2.5

Answer: secrete hormones directly into the bloodstream

98. Hormones are chemicals that are secreted and go directly into

the bloodstream specific organs nerve endings the brain

Difficulty: 1

QuestionID: 02-1-98 Page-Reference: 57

Topic: Distant Connections—The Endocrine Glands

Skill: C Objective: 2.5

Answer: the bloodstream

99. Hormones are _____.

the female gonads

chemicals released into the bloodstream by the endocrine glands

chemicals found in the synaptic vesicles, which when released have an effect on the next cell

the male gonads

Difficulty: 1

QuestionID: 02-1-99 **Page-Reference:** 57

Topic: Distant Connections—The Endocrine Glands

Skill: F Objective: 2.5

Answer: chemicals released into the bloodstream by the endocrine glands

100. Which endocrine gland controls all of the other endocrine glands?

the thyroid gland the adrenal gland the thymus gland the pituitary gland

Difficulty:

QuestionID: 02-1-100

Page-Reference: 58

Topic: Distant Connections—The Endocrine Glands

Skill: F Objective: 2.5

Answer: the pituitary gland

101. The hormone released by the pineal gland that is influential in sleep-wake cycles is _____

melatonin DHEA parathormone thyroxin

Difficulty: 1
QuestionID: 02-1-101

Page-Reference: 58

Topic: Distant Connections—The Endocrine Glands

Skill: F Objective: 2.5

Answer: melatonin

102. Tim is overweight. His physician has decided to test him to see if there is a problem with the regulation of his metabolism. Which endocrine gland will be the focus of diagnostic testing?

the adrenal gland the thymus gland the thyroid gland the pancreas Difficulty: 3

QuestionID: 02-1-102

Page-Reference: 58

Topic: Distant Connections—The Endocrine Glands

Skill: A Objective: 2.5

Answer: the thyroid gland

103. Denise just received the results of a complete physical that found her body is not producing enough insulin. Which of the following endocrine glands is affecting her body's ability to produce insulin?

the adrenal gland the thymus gland the thyroid gland the pancreas

Difficulty: 3

QuestionID: 02-1-103

Page-Reference: 58

Topic: Distant Connections—The Endocrine Glands

Skill: A Objective: 2.5

Answer: the pancreas

104. The sex glands, which secrete hormones that regulate sexual development and behaviour as well as reproduction, are called ______.

the pancreas the gonads cortisol

the hypothalamus

Difficulty: 1

QuestionID: 02-1-104

Page-Reference: 58

Topic: Distant Connections—The Endocrine Glands

Skill: F Objective: 2.5

Answer: the gonads

105. The ______, located on the top of the kidneys, secrete(s) hormones that regulate salt intake, control stress reactions, and provide a secondary source of sex hormones affecting the sexual changes that occur during adolescence.

adrenal glands thymus gland thyroid gland gonads Difficulty: QuestionID: 02-1-105 Page-Reference: 59 Topic: Distant Connections—The Endocrine Glands Skill: F Objective: 2.5 Answer: adrenal glands 106. Joe is very anxious over an upcoming exam. Consequently, his adrenal glands will probably produce more testosterone less estrogen more cortisol less cortisol Difficulty: 2 QuestionID: 02-1-106 Page-Reference: 59 Topic: Distant Connections—The Endocrine Glands Skill: Α Objective: 2.5 Answer: more cortisol 107. Insertion into the brain of a thin insulated wire through which an electrical current is sent that destroys the brain cells at the tip of the wire is called . . deep lesioning **ESB** EEG CT scan Difficulty: QuestionID: 02-1-107 Page-Reference: 60 Topic: Looking Inside the Living Brain Skill: F Objective: 2.6 Answer: deep lesioning 108. Sometimes, in order to study parts of an animal's brain, researchers may deliberately damage a part of the brain. They accomplish this by placing in the brain a thin insulated wire through which they send an electrical current that destroys the brain cells at the tip of the wire. This technique is called deep lesioning ESB **EEG** CT scan

Difficulty: 2

QuestionID: 02-1-108

Page-Reference: 60

Topic: Looking Inside the Living Brain

Skill: C Objective: 2.6

Answer: deep lesioning

109. Insertion into the brain of a thin insulated wire through which an electrical current is sent that stimulates the brain cells at the tip of the wire is called ______.

deep lesioning

ESB EEG CT scan

Difficulty: 1

QuestionID: 02-1-109

Page-Reference: 60

Topic: Looking Inside the Living Brain

Skill: F Objective: 2.6

Answer: ESB

110. If Mindy's doctor has taken a series of images of her brain using X-rays, she likely had a(n)

EEG MRI CT PET

Difficulty: 3

QuestionID: 02-1-110

Page-Reference: 61

Topic: Looking Inside the Living Brain

Skill: A Objective: 2.6

Answer: CT

111. A brain-imaging method that takes computer-controlled X-rays of the brain is called _____

electroencephalography (EEG) magnetic resonance imaging (MRI) positron emission tomography (PET) computed tomography (CT)

Difficulty:

QuestionID: 02-1-111

Page-Reference: 61

Topic: Looking Inside the Living Brain

Answer: computed tomography (CT)

112. Ali is in the hospital about to undergo a brain-imaging process that involves taking many X-rays from different angles aided by a computer. What type of imaging technique is being used?

electroencephalography (EEG) magnetic resonance imaging (MRI) positron emission tomography (PET) computed tomography (CT)

Difficulty: 2
QuestionID: 02-1-112
Page-Reference: 61

Topic: Looking Inside the Living Brain

Skill: A Objective: 2.6

Answer: computed tomography (CT)

113. A brain-imaging method using radio waves and magnetic fields of the body to produce detailed images of the brain is called ______.

electroencephalography (EEG) magnetic resonance imaging (MRI) positron emission tomography (PET) computed tomography (CT)

Difficulty: 1
QuestionID: 02-1-113

Page-Reference: 61

Topic: Looking Inside the Living Brain

Skill: F Objective: 2.6

Answer: magnetic resonance imaging (MRI)

114. Rashad is in the hospital and is about to undergo a brain-imaging process that involves placing him inside a magnetic field so that a computer can create three-dimensional images of his brain. What procedure is he about to undergo?

electroencephalography (EEG) magnetic resonance imaging (MRI) computed tomography (CT)

positron emission tomography (PET)

Difficulty: 2
QuestionID: 02-1-114
Page-Reference: 61

Topic: Looking Inside the Living Brain

Skill: A Objective: 2.6

Answer: magnetic resonance imaging (MRI)

115. A brain-imaging method called ______ takes advantage of the magnetic properties of different atoms to take sharp, three-dimensional images of the brain.

electroencephalography (EEG) magnetic resonance imaging (MRI) positron emission magnetography (PEM) computed tomography (CT)

Difficulty: 1

QuestionID: 02-1-115

Page-Reference: 61

Topic: Looking Inside the Living Brain

Skill: C Objective: 2.6

Answer: magnetic resonance imaging (MRI)

116. Small metal discs are pasted to Miranda's scalp and connected by wire to a machine that translates the electrical energy from her brain into wavy lines on a moving piece of paper. From this description, it is evident that Miranda's brain is being studied through the use of ______

a CT scan

functional magnetic resonance imaging (fMRI)

a microelectrode

an electroencephalogram (EEG)

Difficulty: 2

QuestionID: 02-1-116

Page-Reference: 62

Topic: Looking Inside the Living Brain

Skill: A Objective: 2.6

Answer: an electroencephalogram (EEG)

117. Which of the following is a machine designed to record the brain wave patterns produced by electrical activity of the surface of the brain?

deep lesioning

electrical stimulation of the brain (ESB) an electroencephalogram (EEG)

CT scan

Difficulty: 1

QuestionID: 02-1-117

Page-Reference: 62

Topic: Looking Inside the Living Brain

Skill: F Objective: 2.6

Answer: an electroencephalogram (EEG)

118. Which equipment is used to monitor brain waves?

CT scans

functional magnetic resonance imaging (fMRI)

microelectrode

electroencephalograph (EEG)

QuestionID: 02-1-118

Page-Reference: 62

Topic: Looking Inside the Living Brain

Skill: F Objective: 2.6

Answer: electroencephalograph (EEG)

119. Which of the following is a brain-imaging method in which radioactive sugar is injected into the subject and a computer compiles a colour-coded image of the activity of the brain?

electroencephalography (EEG) computed tomography (CT)

positron emission tomography (PET)

functional magnetic resonance imaging (fMRI)

Difficulty: 1

QuestionID: 02-1-119

Page-Reference: 63

Topic: Looking Inside the Living Brain

Skill: F Objective: 2.6

Answer: positron emission tomography (PET)

120. Libby's physician refers her to a medical centre in order to have the biochemical activity in her brain analyzed. She is given an injection of a radioactive glucose-like substance and then is told to lie down with her head in a scanner. The technique being used is

positron emission tomography (PET)

functional magnetic resonance imaging (fMRI)

microelectrode recording.

an electroencephalogram (EEG)

Difficulty: 2
QuestionID: 02-

QuestionID: 02-1-120 Page-Reference: 63

Topic: Looking Inside the Living Brain

Skill: A Objective: 2.6

Answer: positron emission tomography (PET)

121. Marika needs to have a neuroimaging test that will track the activity of her brain, along with changes in her brain oxygen levels. Which of the following offers an alternative to PET scans, with the advantage of using radioactive tracers that are easier to monitor?

electroencephalography (EEG) computed tomography (CT)

functional positron emission tomography (fPET)

single photon emission computed tomography (SPECT)

QuestionID: 02-1-121

Page-Reference: 63

Topic: Looking Inside the Living Brain

Skill: Α Objective: 2.6

Answer: single photon emission computed tomography (SPECT)

122. Which of the following is the primary benefit of SPECT over PET?

SPECT is a non-invasive neuroimaging technique, while PET is invasive.

SPECT offers the benefit of using radioactive tracers that are easier to monitor than PET.

SPECT allows monitoring of actual brain activity, while PET does not. SPECT offers monitoring of brain oxygen changes, while PET does not.

Difficulty: 2

QuestionID: 02-1-122

Page-Reference: 63

Topic: Looking Inside the Living Brain

Skill: С Objective: 2.6

Answer: SPECT offers the benefit of using radioactive tracers that are easier to monitor than PET.

123. A researcher wants to obtain a "movie" of changes in the activity of the brain using images from different time periods. Which of these would be the best choice for this researcher?

> electroencephalography (EEG) computed tomography (CT)

positron emission tomography (PET)

functional magnetic resonance imaging (fMRI)

Difficulty:

QuestionID: 02-1-123

Page-Reference: 63

Topic: Looking Inside the Living Brain

Skill: Α Objective: 2.6

Answer: functional magnetic resonance imaging (fMRI)

124. In a hospital laboratory, doctors are surprised when they see a photo of 35-year-old Troy's brain. The damage to his brain looks more like that of an 85-year-old Alzheimer's patient than a middleaged adult. It is likely that

Troy has been exercising to the extreme, resulting in brain damage.

Troy has suffered multiple concussions in his lifetime. the doctors have used a PET scan rather than an fMRI.

the doctors obtained an EEG recording when they should have used a CT.

Difficulty:

QuestionID: 02-1-124 Page-Reference: 64

Topic: Looking Inside the Living Brain

Skill: Objective: 2.6 **Answer:** Troy has suffered multiple concussions in his lifetime.

125. The ______ is a structure in the brainstem responsible for life-sustaining functions, such as breathing and heart rate.

reticular activating system

pons medulla cerebellum

Difficulty: 1

QuestionID: 02-1-125

Page-Reference: 65

Topic:

From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.7

Answer: medulla

126. An auto accident rendered Chris's nervous system unable to send messages for him to breathe, so he is on a respirator. Which brain structure was damaged in the accident?

the pons the medulla the cerebellum

the reticular formation

Difficulty: 3

QuestionID: 02-1-126

Page-Reference: 65

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.7

Answer: the medulla

127. The point at which the nerves from the left side of the body cross over into the right side of the brain, and vice versa, is the

reticular activating system

pons medulla cerebellum

Difficulty: 2

QuestionID: 02-1-127

Page-Reference: 65

Topic: From the Bottom Up—The Structures of the Brain

Skill: F
Objective: 2.7

Answer: medulla

128. The _____ is a structure in the brainstem that connects the top of the brain to the bottom and plays a role in sleep, dreaming, left-right body coordination, and arousal.

reticular activating system

pons medulla cerebellum

Difficulty: 1

QuestionID: 02-1-128 Page-Reference: 65

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.7

Answer: pons

129. A university student is having difficulty staying awake during the day and sleeping through the night. Her difficulties are MOST likely due to problems in the _____.

hippocampus pons medulla cerebellum

Difficulty: 3

QuestionID: 02-1-129

Page-Reference: 65

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.7

Answer: pons

130. Since Jessica suffered a head injury in a car accident three months ago, she has not experienced dreams as she had in the past. She used to have vivid, active dreams. Which part of her brain most likely was affected during the car accident, affecting her dreaming problem?

pons cerebellum cerebral cortex pituitary gland

Difficulty: 2

QuestionID: 02-1-130

Page-Reference: 65

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.7

Answer: pons

131. The brain is divided into several different structures on the bottom part of the brain, referred to as the "hindbrain." Which of the parts of the brain listed below is NOT located in the hindbrain?

medulla pons cerebellum thalamus

QuestionID: 02-1-131 **Page-Reference:** 65-66

Topic: From the Bottom Up—The Structures of the Brain

Skill: C Objective: 2.7

Answer: thalamus

132. Which of the following is responsible for the ability to selectively attend to certain kinds of information in one's surroundings and become alert to changes?

reticular formation

pons medulla cerebellum

Difficulty: 1

QuestionID: 02-1-132 **Page-Reference:** 65-66

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.7

Answer: reticular formation

133. What is the main function of the reticular formation?

to control thinking to regulate emotions

to control levels of alertness

to coordinate involuntary rapid fine motor movements.

Difficulty: 2

QuestionID: 02-1-133 Page-Reference: 65-66

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.7

Answer: to control levels of alertness

134. Alice is typing her term paper in the computer lab. Although a class is going on just a few metres away, she does not seem to notice. Which part of the brain allows Alice to focus on her typing and ignore the distractions that surround her?

reticular formation

pons medulla cerebellum

Difficulty: 2

QuestionID: 02-1-134 Page-Reference: 65-66

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.7 Answer: reticular formation

135. Katie has slept with a fan running in her room since she was an infant. This provides white noise to drown out the television programs being watched by other family members who are still awake. In an effort to save electricity, her mother has started turning the fan off after she thinks Katie is asleep. However, each time the fan is turned off, Katie wakes up and asks for it to be turned back on. Katie is selectively attending to certain kinds of information in her surroundings that have been linked to the part of the brain.

reticular formation

pons cerebellum medulla

Difficulty: 2

QuestionID: 02-1-135 **Page-Reference:** 65-66

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.7

Answer: reticular formation

136. The cerebellum _____.

controls blood pressure

is involved in emotional behaviour

coordinates involuntary rapid fine motor movement relays messages from the sensory receptors

Difficulty: 2

QuestionID: 02-1-136

Page-Reference: 66

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.7

Answer: coordinates involuntary rapid fine motor movement

137. Which of the following coordinates involuntary rapid fine motor movement?

medulla pons

reticular formation cerebellum

Difficulty: 1

QuestionID: 02-1-137 Page-Reference: 66

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.7

Answer: cerebellum

138. Damage to the cerebellum is likely to disrupt which of the following?

playing basketball sleeping homeostasis thinking

Difficulty: 3

QuestionID: 02-1-138

Page-Reference: 66

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.7

Answer: playing basketball

139. If your _____ was damaged, you might walk oddly and have trouble standing normally.

pons medulla cerebellum amygdala

Difficulty: 2

QuestionID: 02-1-139

Page-Reference: 66

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.7

Answer: cerebellum

140. Jennifer has been diagnosed with spinocerebellar degeneration. The first stage of the disease involves tremors and unsteady gait. In the later stages, she will be unable to stand and walk and will be uncoordinated in her movements. This disease affects the _____ part of the brain.

hippocampus amygdala cerebellum cerebral cortex

Difficulty: 2

QuestionID: 02-1-140

Page-Reference: 66

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.7

Answer: cerebellum

141. Tracey has been unable to participate in her gymnastics class and is very uncoordinated since she was involved in an accident during which she suffered a head injury. As a result of the accident, she is likely to have suffered damage to her

cerebellum medulla cerebral cortex hypothalamus

Difficulty: 2

QuestionID: 02-1-141

Page-Reference: 66

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.7

Answer: cerebellum

142. Which of the following is a group of several brain structures located under the cortex and involved in learning, emotion, memory, and motivation?

limbic system cerebellum cerebral cortex cerebrum

Difficulty:

QuestionID: 02-1-142

Page-Reference: 66

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.8

Answer: limbic system

143. The structures of the limbic system play an important role in _____ and _____.

heart rate; breathing breathing; decision making memory; emotion

spatial tasks; sequential tasks

Difficulty: 1

QuestionID: 02-1-143

Page-Reference: 66

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.8

Answer: memory; emotion

144. What part of the brain acts as a relay station for incoming sensory information?

hypothalamus thalamus cerebellum pituitary gland

QuestionID: 02-1-144

Page-Reference: 67

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.8

Answer: thalamus

145. The thalamus is often compared to a(n) _____.

triage nurse fast-food menu stop sign bus stop

Difficulty: 2

QuestionID: 02-1-145

Page-Reference: 67

Topic: From the Bottom Up—The Structures of the Brain

Skill: C Objective: 2.8

Answer: triage nurse

146. Jerry loves the smell of the grass after it rains. This is the result of his ______, which has (have) received signals from neurons in his sinus cavity.

thalamus olfactory bulbs opticfactory bulbs hippocampus

Difficulty:

QuestionID: 02-1-146

Page-Reference: 67

Topic: From the Bottom Up—The Structures of the Brain

Skill: C Objective: 2.8

Answer: olfactory bulbs

147. Signals from the neurons of which sense are NOT sent to the cortex by the thalamus?

hearing smell taste vision

Difficulty: 2

QuestionID: 02-1-147

Page-Reference: 67

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.8 Answer: smell

148. Which part of the brain is very small but extremely powerful and controls the pituitary gland?

hippocampus thalamus hypothalamus amygdala

Difficulty:

QuestionID: 02-1-148

Page-Reference: 67

From the Bottom Up—The Structures of the Brain Topic:

Skill: Objective: 2.8

Answer: hypothalamus

149. Eating, drinking, sexual behaviour, sleeping, and temperature control are most strongly

influenced by the hippocampus

thalamus hypothalamus amygdala

Difficulty: 2

02-1-149 QuestionID:

Page-Reference: 67

Topic: From the Bottom Up—The Structures of the Brain

Skill: Objective: 2.8

Answer: hypothalamus

150. Which of the following is a likely effect of damage to the hypothalamus?

reduced use of left arm deregulation of hormones development of aphasia reduced ability to reason

Difficulty: 2 QuestionID: 02-1-150

Page-Reference:

67

Topic: From the Bottom Up—The Structures of the Brain

Skill: С Objective: 2.8

Answer: deregulation of hormones

151. I ne _	is the part of the brain responsible for the formation of long-term memories.
	hippocampus hypothalamus fornix amygdala
Difficulty: QuestionID: Page-Referen Fopic: Skill: Objective:	1 02-1-151 ice: 67 From the Bottom Up—The Structures of the Brain F 2.8
Answ	ver: hippocampus
dama	have a problem remembering things that happened a year ago, doctors might check for ge to the hippocampus hypothalamus fornix amygdala
Difficulty: QuestionID: Page-Referen Fopic: Skill: Objective:	2 02-1-152 ice: 67 From the Bottom Up—The Structures of the Brain A 2.8
	ver: hippocampus e suffering from Alzheimer's disease have much lower levels of acetylcholine in the
	hippocampus hypothalamus fornix amygdala
Difficulty: QuestionID: Page-Referen Fopic: Skill: Objective:	3 02-1-153 ICE: 67 From the Bottom Up—The Structures of the Brain F 2.8
Answ	ver: hippocampus
stimu	is located within the temporal lobe on each side of the brain, and if electrically lated it may produce dream-like or memory-like experiences. thalamus amygdala hypothalamus hippocampus

QuestionID: 02-1-154

Page-Reference: 68

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.8

Answer: hippocampus

155. Which of the following brain structures is located near the hippocampus and is responsible for fear responses and memory of fear?

hippocampus hypothalamus

fornix amygdala

Difficulty: 1

QuestionID: 02-1-155

Page-Reference: 68

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.8

Answer: amygdala

156. As Joe walks to his car late at night, he hears footsteps behind him. Feeling afraid, Joe grips his keys and quickens his pace. It is likely that Joe's has been activated.

hypothalamus hippocampus amygdala cerebellum

Difficulty: 2

QuestionID: 02-1-156

Page-Reference: 68

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.8

Answer: amygdala

157. Rats that have a damaged _____ will show no fear when placed next to a cat.

hippocampus hypothalamus fornix

fornix amygdala

Difficulty: 3

QuestionID: 02-1-157

Page-Reference: 68

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.8 Answer: amygdala

158. The _____ instantly assesses anger or threat.

amygdala medulla fornix parietal lobe

Difficulty: 2

QuestionID: 02-1-158

Page-Reference: 68

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.8

Answer: amygdala

159. Stan has been extremely afraid of cats since he was scratched as a 5-year-old. Whenever he sees a cat, he remembers the time he was scratched across his face and starts to feel afraid. If a cat comes toward him, he often runs away immediately, as he is afraid of being scratched again. Stan's behaviours and recollection of this trauma are a result of the _____ in the limbic system.

hippocampus thalamus amygdala medulla

Difficulty: 3

QuestionID: 02-1-159

Page-Reference: 68

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.8

Answer: amygdala

160. Ally has difficulty with selective attention, recognizing words, and her short-term memory. She has also been exhibiting symptoms of depression. Which limbic structure are her physicians most likely to suspect is playing a role in her symptoms?

thalamus amygdala hypothalamus cingulate cortex

Difficulty: 2

QuestionID: 02-1-160

Page-Reference: 68

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.8

Answer: cingulate cortex

161. The outermost part of the brain, which is made up of tightly packed neurons and is only a tenth of an inch thick, is called the

amygdala medulla cerebellum cortex

Difficulty: 1

QuestionID: 02-1-161

Page-Reference: 69

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.8

Answer: cortex

162. The cortex is divided into two sections referred to as _____

cerebral hemispheres

cerebellums corpus callosum neurotransmitters

Difficulty:

QuestionID: 02-1-162

Page-Reference: 69

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: cerebral hemispheres

163. The thick band of neurons that connects the right and left cerebral hemispheres is called the

cortex cerebrum corpus callosum cerebellum

Difficulty:

QuestionID: 02-1-163

Page-Reference: 69

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: corpus callosum

164. Which of the following is the section of the brain located at the rear and bottom of each cerebral hemisphere and that contains the visual centres of the brain?

occipital lobe parietal lobe temporal lobe frontal lobe

QuestionID: 02-1-164

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: occipital lobe

165. After a head injury a person reports that she is unable to see, although her eyes are uninjured. A doctor would suspect an injury in the _____ lobe.

occipital parietal temporal frontal

Difficulty: 3

QuestionID: 02-1-165

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.9

Answer: occipital

166. Which of the following regions contains the primary visual cortex?

occipital lobe parietal lobe temporal lobe frontal lobe

Difficulty: 2

QuestionID: 02-1-166

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: occipital lobe

167. The part of the occipital lobe that is responsible for receiving visual information from the eyes is called the

primary visual cortex

somatosensory cortex

temporal lobe frontal lobe

Difficulty: 1

QuestionID: 02-1-167

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9 **Answer:** primary visual cortex

168. John has decided to learn how to wrestle. On his first day at practice, a seasoned wrestler slams the back of John's head to the mat. John is shaken and reports to the trainer that he "saw stars" after he hit his head. As evidenced by "seeing stars," John's _____ was temporarily affected as a result of the slam.

corpus callosum occipital lobe parietal lobes

somatosensory cortex

Difficulty: 3

QuestionID: 02-1-168 **Page-Reference:** 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.9

Answer: occipital lobe

169. Sue was rollerblading when a cat jumped in front of her, causing her to fall. She landed on the back of her head, at which point she "saw stars." Which lobe would have been most affected by this fall, given what she saw?

frontal temporal parietal occipital

Difficulty: 2

QuestionID: 02-1-169

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.9

Answer: occipital

170. The section of the brain responsible for interpreting the visual information in the primary visual cortex is called the

visual association cortex somatosensory cortex

temporal lobe frontal lobe

Difficulty: 1

QuestionID: 02-1-170

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: visual association cortex

171. Damage to the _____ would result in an inability to identify and comprehend what is seen through the eyes.

visual association cortex primary visual cortex temporal lobe frontal lobe

Difficulty: 3

QuestionID: 02-1-171 Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: visual association cortex

172. Which of the following regions contains the somatosensory cortex?

occipital lobes parietal lobes temporal lobes frontal lobes

Difficulty: 2

QuestionID: 02-1-172

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: parietal lobes

173. The ______ lobes are located at the top and back of each cerebral hemisphere, containing the centres for touch, body position, and temperature.

frontal temporal occipital parietal

Difficulty: 3

QuestionID: 02-1-173

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: parietal

174. All is trying to decide whether the shower is hot enough to step into, Hall is listening to his MP3 player, and Sall is looking at a beautiful painting in an art museum. Which individual is using his parietal lobe?

Al Hal

Sal

Hal and Sal are, but Al is not.

QuestionID: 02-1-174

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.9

Answer: Al

175. Darla was in an automobile accident that resulted in an injury to her brain. Her sense of touch has been affected. Which part of the brain is the most likely site of the damage?

frontal lobes temporal lobes occipital lobes parietal lobes

Difficulty: 3

QuestionID: 02-1-175

Page-Reference: 70

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.9

Answer: parietal lobes

176. Which of the following regions contains the auditory cortex?

temporal lobes parietal lobes frontal lobes occipital lobes

Difficulty: 2

QuestionID: 02-1-176 Page-Reference: 70-71

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: temporal lobes

177. The part of the brain located just behind the temples, containing neurons responsible for the sense of hearing and meaningful speech, is called the ______.

temporal lobes parietal lobes frontal lobes occipital lobes

Difficulty:

QuestionID: 02-1-177 Page-Reference: 70-71

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9 Answer: temporal lobes

178. Bobby B. was rollerblading when a cat jumped in front of him, causing him to fall. When he fell, he landed on the side of his head. Shortly afterward, Bobby complained that he could not understand what people were saying to him. Which lobe would have been most affected by this fall, given what he experienced?

frontal temporal parietal occipital

Difficulty: 3

QuestionID: 02-1-178 Page-Reference: 70-71

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.9

Answer: temporal

179. Which of the following lobes are involved in planning, memory, and personality?

temporal lobes parietal lobes frontal lobes occipital lobes

Difficulty: 1

QuestionID: 02-1-179

Page-Reference: 71

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.9

Answer: frontal lobes

180. Warren is having trouble deciding what he wants to eat for breakfast. Which lobe of his brain is especially active as he makes his selection?

temporal parietal frontal occipital

Difficulty: 3

QuestionID: 02-1-180

Page-Reference: 71

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.9

Answer: frontal

181. After suffering a brain injury by falling from a ladder, Zack's wife continues to tell the doctor that his personality has changed. He used to be fun-loving and carefree, but he is now more critical and yells at his children for seemingly little reason. Zack is likely to have suffered damage to the part of his cortex.

occipital lobe parietal lobes temporal lobes

frontal lobes

Difficulty: 3
QuestionID: 02-1-181
Page-Reference: 71

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.9

Answer: frontal lobes

182. Marta was in an automobile accident and suffered an injury to her brain, resulting in paralysis of her left arm. What part of Marta's brain was injured?

auditory association area

motor cortex association areas somatosensory cortex

Difficulty: 3

QuestionID: 02-1-182

Page-Reference: 71

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.9

Answer: motor cortex

183. Messages from the brain to the muscles and glands in the body begin their journey in the _____.

auditory association area motor cortex association areas somatosensory cortex

Difficulty: 2

QuestionID: 02-1-183

Page-Reference: 71

Topic: From the Bottom Up—The Structures of the Brain

Skill: F
Objective: 2.9

Answer: motor cortex

	are fired when an animal performs an action or when the animal observes that same
	being performed. For example, an infant will mimic the facial expressions of adults.
	Mirror neurons Statue neurons
	Facial neurons
	Observation neurons
Diffi and to a	
Difficulty: QuestionID:	3 02-1-184
Page-Reference	
Topic:	From the Bottom Up—The Structures of the Brain
Skill:	C
Objective:	2.9
Answe	er: Mirror neurons
185. Samm	y is watching his father hammer a nail into a board. Which neurons are most likely firing?
n	Mirror neurons
	somatosensory neurons
	nterneurons
6	association neurons
Difficulty:	2
QuestionID:	02-1-185
Page-Reference	
Topic: Skill:	From the Bottom Up—The Structures of the Brain
Objective:	A 2.9
-	
Answe	er: Mirror neurons
186. Incom i	ing sensory messages are made sense of in
	Broca's area
	he motor projection areas
	he association areas Vernicke's area
,	Vertilicke's area
Difficulty:	1
QuestionID:	02-1-186
Page-Reference	
Topic: Skill:	From the Bottom Up—The Structures of the Brain C
Objective:	2.10
-	er: the association areas
187. The ar	ea of the frontal lobe that is devoted to the production of fluent speech is area.
	Broca's
	Gall's
	Vernicke's
ľ	Korsakoff's

QuestionID: 02-1-187

Page-Reference: 72

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.10

Answer: Broca's

188. Bill was admitted to the hospital last week after he fell. When Bill's son visited, he found that his father was unable to get words out in a smooth, connected fashion. If Bill's difficulty speaking is due to brain damage, what is the likely location of the damage?

Broca's area Gall's area Wernicke's area Korsakoff's area

Difficulty: 3

QuestionID: 02-1-188

Page-Reference: 72

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.10

Answer: Broca's area

189. The area at the back of the temporal lobe that is crucial in the ability to listen, process, and understand what others are saying is _____ area.

Broca's Gall's Wernicke's Korsakoff's

Difficulty: 1

QuestionID: 02-1-189

Page-Reference: 72

Topic: From the Bottom Up—The Structures of the Brain

Skill: F
Objective: 2.10

Answer: Wernicke's

190. Mary suffered a head injury in a car accident last week. Since that time she is able to speak fluently but uses the wrong words when expressing herself. Mary may be exhibiting ______ aphasia.

Broca's Gall's Wernicke's Korsakoff's

QuestionID: 02-1-190

Page-Reference: 72

Topic: From the Bottom Up—The Structures of the Brain

Skill: Objective: 2.10

Answer: Wernicke's

191. Robert's mother is usually meticulous in her presentation. When picking her up for a family dinner, he noticed that her makeup was applied only to the right side of her face. Her hair was also brushed on the right side, but on the left side it was matted and uncombed. He immediately took her to the hospital after discovering that she was unaware of any problems. She was diagnosed with _____, which is evidenced by damage to the association areas of the right hemisphere.

> Wernicke's aphasia Broca's aphasia

unilateral spatial neglect

split-brain

Difficulty: QuestionID: 02-1-191 Page-Reference: 72

Topic: From the Bottom Up—The Structures of the Brain

Skill: Α Objective: 2.10

Answer: unilateral spatial neglect

192. Which of the following is the upper part of the brain, consisting of two cerebral hemispheres and the structures that connect them?

occipital lobe cerebrum corpus callosum cerebellum

Difficulty:

02-1-192 QuestionID: Page-Reference: 73

Topic: From the Bottom Up—The Structures of the Brain

Skill: Objective: 2.10

Answer: cerebrum

193. Researcher Roger Sperry won a Nobel Prize for his research on epilepsy. Sperry cut through the , which joins the two hemispheres of the brain.

> medulla pons

pituitary gland corpus callosum

QuestionID: 02-1-193

Page-Reference: 73

Topic: From the Bottom Up—The Structures of the Brain

Skill: F Objective: 2.11

Answer: corpus callosum

194. Since Norma is a split-brain patient, we can infer that she likely has a history of ______.

mental illness severe epilepsy anosognosia frontal lobe damage

Difficulty: 1

QuestionID: 02-1-194

Page-Reference: 73

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.11

Answer: severe epilepsy

195. Pat has decided to undergo surgery to treat her severe epilepsy. Consequently, her doctors will use a surgical procedure during which they will sever her

parietal lobe corpus callosum

cerebral cortex subcortical structure

Difficulty: 3

QuestionID: 02-1-195

Page-Reference: 73

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.11

Answer: corpus callosum

196. If Darren's brain is like that of most people, language will be handled by his ______.

corpus callosum occipital lobe right hemisphere left hemisphere

Difficulty: 2

QuestionID: 02-1-196

Page-Reference: 73

Topic: From the Bottom Up—The Structures of the Brain

Skill: A Objective: 2.11 Answer: left hemisphere

197. Which of the following is a function of the right hemisphere?

perception, emotional thought, and recognition of patterns

sense of time and rhythm

speech, handwriting, and calculation language processing in most individuals

Difficulty: 2

QuestionID: 02-1-197

Page-Reference: 74

Topic: From the Bottom Up—The Structures of the Brain

Skill: C Objective: 2.11

Answer: perception, emotional thought, and recognition of patterns

198. Which is a specific function of the left hemisphere of the brain?

visual-spatial perception emotional thought and recognition mathematical calculations pattern recognition

Difficulty: 1

QuestionID: 02-1-198

Page-Reference: 74

Topic: From the Bottom Up—The Structures of the Brain

Skill: F
Objective: 2.11

Answer: mathematical calculations

199. Addie has recently been diagnosed with attention deficit/hyperactivity disorder (ADHD). Her psychiatrist tells her that there are several different brain areas that might contribute to her various symptoms. Which of the following would the psychiatrist be unlikely to name as an involved brain structure?

the cerebellum the basal ganglia the striate nucleus the corpus callosum

Difficulty: 2

QuestionID: 02-1-199 Page-Reference: 75

Topic: Applying Psychology to Everyday Life—Paying Attention to the Causes of Attention Deficit

Hyperactivity Disorder

Skill: A
Objective: 2.11

Answer: the striate nucleus

200. Which of the following cognitive abilities has been found to be normal in people diagnosed with attention deficit/hyperactivity disorder?

some aspects of attention

vigilance (watching out for something important)

staying on task

engaging in self-control

Difficulty: 3

QuestionID: 02-1-200

Page-Reference: 75

Topic: Applying Psychology to Everyday Life—Paying Attention to the Causes of Attention Deficit

Hyperactivity Disorder

Skill: F
Objective: 2.11

Answer: some aspects of attention

Chapter 02 True or False Questions

- 1. One function of the nervous system is to send information to and from all parts of the body.
 - a True b False

QuestionID: 02-2-201
Page-Reference: 42
Objective: 2.1

Answer: a. True

- 2. The axon receives messages from other neurons.
 - a True b False

QuestionID: 02-2-202 Page-Reference: 43 Objective: 2.1

Answer: b. False

- 3. Glial cells provide structure for neurons.
 - a Trueb False

QuestionID: 02-2-203 Page-Reference: 43

Objective: 43

Answer: a. True

- 4. Myelin not only insulates the neuron, but also slows down the neural message, helping with transmission of messages travelling down the axon.
 - a True b False

QuestionID: 02-2-204
Page-Reference: 44
Objective: 2.1

Answer: b. False

- 5. Cell membranes are semipermeable.
 - a True b False

QuestionID: 02-2-205
Page-Reference: 44
Objective: 2.1

Answer: a. True

- 6. Neurons that are at rest are still electrically charged.
 - a True b False

QuestionID: 02-2-206
Page-Reference: 45
Objective: 2.1

Answer: a. True

7. During resting membrane potential, the neuron is positively charged inside and negatively charged outside.

a True b False

QuestionID: 02-2-207
Page-Reference: 45
Objective: 2.1

Answer: b. False

8. A synapse is like a locked door that only certain neurotransmitter keys can unlock.

a True b False

QuestionID:02-2-208Page-Reference:47-48Objective:2.2

- 9. Acetylcholine is an agonist or an excitatory neurotransmitter also found in a part of the brain responsible for forming new memories and stimulating muscle contraction.
 - a True b False

QuestionID: 02-2-209 Page-Reference: 48-49 Objective: 2.2

Answer: a. True

- 10. The central nervous system consists of the brain and spinal cord.
 - a True b False

QuestionID: 02-2-210
Page-Reference: 51
Objective: 2.3

Answer: a. True

11. Motor neurons carry messages from special receptors in the skin, from muscles, and from sense organs to the spinal cord.

a True b False

QuestionID: 02-2-211
Page-Reference: 52
Objective: 2.3

Answer: b. False

12. Interneurons connect sensory neurons to the motor neurons.

a True b False

QuestionID: 02-2-212 Page-Reference: 52 Objective: 2.3

Answer: a. True

13. Neuroplasticity is the concept that when the brain is injured, it is unable to change the structure and function of the cells to adjust to the damage.

a True b False

QuestionID: 02-2-213
Page-Reference: 53
Objective: 2.3

- 14. Stem cells are special cells capable of creating other cells, such as blood cells, nerve cells, and brain cells.
 - a True b False

QuestionID: 02-2-214

Page-Reference: 53 Objective: 2.3

Answer: a. True

- 15. The somatic nervous system is made up of nerves carrying messages from the central nervous system to the muscles of the body.
 - a True b False

QuestionID: 02-2-215
Page-Reference: 54
Objective: 2.4

Answer: a. True

16. Activation of the sympathetic nervous system leads to pupil dilation, inhibition of digestion, and an accelerated heartbeat.

a True b False

QuestionID: 02-2-216
Page-Reference: 55-56
Objective: 2.4

Answer: a. True

17. Endocrine glands secrete chemicals directly into the body's tissues through ducts.

a True b False

QuestionID: 02-2-217
Page-Reference: 57
Objective: 2.5

Answer: b. False

18. The pineal gland secrets a hormone called insulin.

a True b False

QuestionID: 02-2-218
Page-Reference: 58
Objective: 2.5

- 19. If the pancreas secretes too little insulin, the result is diabetes.
 - a True b False

QuestionID: 02-2-219

Page-Reference: 58 Objective: 2.5

Answer: a. True

- 20. If the body secretes too much insulin, the result is hyperglycemia.
 - a True b False

QuestionID: 02-2-220

Page-Reference: 58 Objective: 2.5

Answer: b. False

- 21. The thyroid gland secretes a hormone called thyroxin.
 - a True b False

QuestionID: 02-2-221
Page-Reference: 58
Objective: 2.5

Answer: a. True

22. Positron emission tomography (PET scan) is a brain-imaging method that uses radio waves and magnetic fields of the body to produce detailed images of the brain.

a True b False

QuestionID: 02-2-222
Page-Reference: 63
Objective: 2.6

Answer: b. False

23. The medulla is responsible for people's ability to selectively attend to certain kinds of information in their surroundings.

a True b False

QuestionID: 02-2-223
Page-Reference: 65
Objective: 2.7

- 24. The cortex "wrinkles" as a result of fluid filling the brain over the lifespan.
 - a True b False

QuestionID: 02-2-224

Page-Reference: 69 Objective: 2.8

Answer: b. False

- 25. The occipital lobes contain the visual cortex, where visual signals are processed.
 - a True b False

QuestionID: 02-2-225 Page-Reference: 70

Objective: 2.9

Answer: a. True

26. A person who suffered brain damage is likely to have problems controlling his or her emotions as a result of damage with the connection from the temporal lobe to the limbic system.

a True b False

QuestionID: 02-2-226
Page-Reference: 70-71
Objective: 2.9

Answer: b. False

27. The cerebrum is divided into two hemispheres that control opposite sides of the body.

a True b False

QuestionID: 02-2-227 Page-Reference: 73-74 Objective: 2.11

Answer: a. True

28. The cerebral cortex is severed in individuals who are considered to have a "split-brain" after a surgery to stop epileptic seizures.

a True b False

QuestionID: 02-2-228
Page-Reference: 73
Objective: 2.11

Chapter 02 Short Answer Questions

1. List the three main parts of the neuron and explain the role that each plays in the transmission of neural communication.

QuestionID: 02-3-229 Page-Reference: 43-44 Objective: 2.1

Answer:

2. List two different functions of glial cells.

QuestionID:02-3-230Page-Reference:43-44Objective:2.1

Answer:

3. What is a synapse?

QuestionID: 02-3-231
Page-Reference: 47
Objective: 2.2

Answer:

4. What are neurotransmitters?

QuestionID:02-3-232Page-Reference:47-48Objective:2.2

Answer:

5. Name three neurotransmitters and their functions.

QuestionID:02-3-233Page-Reference:48-49Objective:2.2

Answer:

6. Explain the difference between the central nervous system (CNS) and the peripheral nervous system (PNS).

 QuestionID:
 02-3-234

 Page-Reference:
 51-54

 Objective:
 2.3-2.4

Answer:

7. What is the difference between the sympathetic and parasympathetic nervous systems?

QuestionID: 02-3-235 Page-Reference: 55-56 Objective: 2.4

Answer:

8. Name two hormones that are of particular interest to psychologists and state which gland they are related to and some of the tasks that these hormones perform.

QuestionID: 02-3-236 Page-Reference: 58-59 Objective: 2.5

Answer:

9. How does an MRI (magnetic resonance imaging) scan allow the exploration of the brain without the injection of chemicals?

QuestionID:02-3-237Page-Reference:61-62Objective:2.6

Answer:

10. Why is the cortex in the brain so wrinkled?

QuestionID: 02-3-238
Page-Reference: 69
Objective: 2.8

Answer:

11. What are the symptoms of Broca's aphasia?

QuestionID:02-3-239Page-Reference:72Objective:2.10

Answer:

12. What are the symptoms of Wernicke's aphasia?

QuestionID:02-3-240Page-Reference:72Objective:2.10

Answer:

13. What are the differences in how the right and left cerebral hemispheres function?

QuestionID: 02-3-241
Page-Reference: 73-74
Objective: 2.11

Answer:

14. Briefly explain Roger Sperry's split-brain research.

QuestionID: 02-3-242 Page-Reference: 73-74 Objective: 2.11

Answer:

Chapter 02 Essay Questions

1. What is a neuron? Describe the three parts of a neuron and their functions. Explain the process of how a neural message is transmitted from the end of one neuron to the beginning of another and the process by which a neuron moves from a resting state (resting potential) to firing (action potential) and then back to a resting state.

QuestionID: 02-4-243 Page-Reference: 42-48 Objective: 2.1-2.2

Answer:

2. Describe the functions of the brain and the spinal cord. How are these functions similar? How are these functions dissimilar?

QuestionID: 02-4-244
Page-Reference: 51-52
Objective: 2.3

Answer:

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142

3. What are the primary functions of the sympathetic and parasympathetic components of the peripheral nervous system? Describe a situation or experience in which activation of the sympathetic and parasympathetic divisions has occurred.

QuestionID: 02-4-245
Page-Reference: 55-56
Objective: 2.4

Answer:

4. How does the endocrine system influence behaviour? Describe the functions of three glands and the hormones that each secretes.

QuestionID: 02-4-246
Page-Reference: 57-59
Objective: 2.5

Answer:

5. Choose any three methods that psychologists use to learn about the functions of the brain. Describe the method, how it works, and the type of information we can learn from it.

QuestionID: 02-4-247
Page-Reference: 60-63
Objective: 2.6

Answer: