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Student na	nme:	
	Blank is an insulating coating of fat and pped around an axon.	
2) Acco	ording to theBlank law, neurons are off.	
feeling of eu	er a long run, Aaron sometimes experiences a uphoria, a "runner's high," reflecting the activity of neurotransmitters calledBlank.	
,	neurons that transmit information from the f the body to the central nervous system are Blank.	
*	somatic nervous system controls voluntary In contrast, theBlank nervous system	controls involuntary movement.
her doctor is Her doctor i	ma has been experiencing memory difficulties, and so concerned that Wilma may have a brain tumor. is most likely to recommend a(n)Blank firm his diagnosis.	

7) Extending from the medulla, through the

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midbrain, into the forebrain is theBlank, which activate other parts of the brain immediately to produce general bodily arousal.	can
8) Information travels from the sensory receptors to theBlank in the brain, which communicates the	information upward to higher parts of the brain.
9) The amygdala and hippocampus are found within brain'sBlank, the part of the brain that controls	the eating, aggression, and reproduction.
10) The cortex has four major sections calledBlank.	
11) TheBlank area in the parietal lobe encompasses specific locations associated with the ability perceive touch and pressure in a particular area of the body	
12) Vince has learned to voluntarily control his internal physiological processes as part of the treatment for an anadisorder. This is an example ofBlank.	
13) Psychologists who specialize in considering the w in which the biological structures and functions of the boo	-
A) genetic psychologists.B) biopsychologists.C) evolutionary psychologists.	D) forensic psychologists.

14)	The basic elements of the nervous system are called	
	A) erythrocytes. B) neutrophils.	C) neurons. D) neurotransmitters.
15) neuro	Which of the following characteristics distinguishes ns from most other cells in the human body?	
	A) the ability to migrate and accommodate the body's ological requirements B) the ability to undergo division and replication for ded periods of time C) the ability to communicate with other cells and	over long distances D) the ability to withstand denaturation in extremely acidic or alkaline conditions
16) that re	There is a cluster of fibers at the end of every neuron eceives messages from other neurons called	
	A) axons. B) terminal buttons.	C) glial fibers.D) dendrites.
17)	An axon is a	
	A) neuron's cell body.B) cluster of fibers at one end of a neuron.C) neuron's protective coating of fat and protein.	D) long, slim, tubelike extension of a neuron.
18)	Terminal buttons are small bulges found at the end of	
	A) neurotransmitters. B) dendrites.	C) axons. D) glial cells.

19) to	Dendrite is to axon whatBlank isBlank.	
	A) receiving; sendingB) sending; receivingC) reuptake; action potential	D) action potential; reuptake
20)	Which of the following is true of neural impulses?	
	A) They are electrical in nature.B) They deliver excitatory and inhibitory messagesC) They are stored in the axons of neurons.	D) They are bidirectional.
21) the ro	Which of the following sequences accurately reflectute followed by nerve impulses when one neuron	cts communicates with another?
	 A) dendrite → axon → cell body B) dendrite → cell body → axon C) cell body → axon → dendrite 	D) axon \rightarrow dendrite \rightarrow cell body
22) plastic	Electrical wires are generally protected by a tube of c. Similarly, the nervous system is insulated by a	f
	A) myelin sheath.B) glial cell.	C) terminal button. D) synapse.
23)	Blank is a protective coating of fat and n that wraps around an axon.	
protei	in that wraps are and an arem	C) The
	A) A myelin sheath B) A glial cell	C) The

sarcoplasmic reticulum

D) The basal lamina

24) the	The rule that neurons are either on or off is known as Blank law.	
	A) intensity of stimulus B) graded action	C) all-or-none D) incremental transformational
	The state in which there is a negative electrical charge out -70 millivolts within a neuron is known as Blank state.	
	A) triggering B) terminal	C) optimum D) resting
26) potent	Which of the following statements is true of an action tial?	
to the	A) As an impulse travels along an axon, the movement as changes the charge from positive to neutral in ssive sections of the axon. B) An action potential moves from one end of an axon other like a flame moving along a fuse. C) After an impulse has passed through a particular on of an axon, negative ions are pumped out of that on, and its charge returns to positive while an action	potential continues to move along the axon. D) Just after an action potential has passed through a section of an axon, a neuron can fire again immediately if it receives enough stimulation.
27) electri	An action potential is triggered when a neuron's ical charge changes from	
	A) negative to neutral.B) positive to neutral.C) negative to positive.	D) positive to negative.

28) Blank are specialized only when a person enacts a particular of the second of the	ar behavior, but also
when a person simply observes anot out the same behavior.	
A) Pharyngeal motor neuron B) Mirror neurons	C) Ventral cord motor neurons D) Amphid neurons
29) ABlank is the space where the axon of a sending neuron dendrites of a receiving neuron by u	
A) synapse B) terminal button	C) tight junction D) sarcomere
30) Which of the following state messages?	ments is true of inhibitory
A) Inhibitory messages, on or messages, cause neurons to fire. B) Inhibitory messages decrease receiving neuron will fire. C) Inhibitory messages are to neurotransmitter does not fit into a receivable.	likely that an action potential will travel down an axon.
31) The reabsorption of neurotra terminal button is termed	nsmitters by an axon's
A) recycling.B) reassertion.	C) reuptake. D) reuse.

32) matche	Which of the following neurotransmitters is correctly ed with its description?	
excitat	A) Acetylcholine: It transmits messages related to al muscles. B) Gamma-aminobutyric acid (GABA): It is an tory neurotransmitter inhibited by alcohol or illizers. C) Serotonin: It aids in muscle movement and	cognitive functioning. D) Glutamate: It is primarily an inhibitory neurotransmitter, except in the hippocampus.
33) dopam	Identify a true statement about the neurotransmitter nine.	
Alzhei	A) A deficiency in dopamine levels is related to imer's disease.B) It is found primarily in the spinal cord.C) Reduction in dopamine production enables	effective regulation of sleep and pain. D) It is involved in movement, attention, and learning.
34) psycho	Which neurotransmitter is correctly matched with a ological function?	
	A) Glutamate: It relieves pain.B) Acetylcholine: It regulates mood.C) Dopamine: It facilitates learning.	D) Serotonin: It contributes to memory.
35) neurot	Which disorder is correctly paired with an associated ransmitter?	
		C) Schizophrenia:

serotonin

D) Alzheimer's

A) Parkinson's disease: dopamine

B) Depression: glutamate

disease: endorphins

36) to	Inhibitory is to excitatory whatBlank isBlank.	
	A) glutamate; gamma-aminobutyric acid (GABA) B) glutamate; acetylcholine C) gamma-aminobutyric acid (GABA); glutamate	D) an endorphin; serotonin
37)	The nervous system is divided into	
	A) the primary and secondary nervous systems.B) the somatic and autonomic nervous systems.C) the sympathetic and parasympathetic nervous	systems. D) the central and peripheral nervous systems.
38) the	The brain and the spinal cord constitute Blank nervous system.	
	A) central B) peripheral	C) somatic D) parasympathetic
39) transm body.	TheBlank is the primary means for nitting messages between the brain and the rest of the	
	A) hematopoietic stem cell B) sarcoplasmic reticulum	C) juxtaglomerular apparatus D) spinal cord
40) that it	One of the characteristic features of the spinal cord is	

	A) functions exclusively as a communication channel.B) is not involved in reflexes.C) can control some simple reflexes without the	brain's help. D) is a part of the peripheral nervous system.
41) respo	A(n)Blank is an automatic, involuntary nse to an incoming stimulus.	
	A) action potential B) synapse	C) inflammation D) reflex
42) nervo	Unlike the central nervous system, the peripheral ous system	
intern	A) is made up of sensory neurons, motor neurons, and neurons.B) is composed of the brain and the spinal cord.C) consists of neurons that have short axons and	dendrites. D) comprises the somatic and autonomic nervous systems.
43) to	Sensory is to motor whatBlank isBlank.	D) interneuron;
	A) efferent; afferent B) afferent; efferent C) afferent; interneuron	efferent
	Blank are involved in reflexes and nunicate information from the nervous system to muscles lands.	
	A) Mirror neurons	B) Amphid neurons C) Motor neurons

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D) Autoneurons

45)	The two major divisions of the peripheral nervous	
systen	A) the somatic and autonomic divisions.B) the sympathetic and parasympathetic divisions.C) the afferent and efferent divisions.	D) the sensory and motor divisions.
mover	TheBlank is the part of the peripheral us system that specializes in the control of voluntary ments and communicates information to and from thorgans.	
	A) somatic divisionB) sympathetic divisionC) parasympathetic division	D) autonomic division
47) to	Somatic is to autonomic whatBlank isBlank.	
	A) involuntary; voluntary B) voluntary; involuntary	C) excitation; rest D) rest; excitation
	The part of the autonomic division of the periphera as system that acts to prepare an organism's body for in stressful situations, engaging all of the organism'	threat is known as the
	A) somatic division.B) sympathetic division.C) parasympathetic division.	D) synaptic division.
		49) The "fight-or-

flight" response is associated with theBlank autonomic division of the peripheral nervous system.	of the
A) somatic division B) sympathetic division C) parasympathetic division	D) hematopoietic division
50) The part of the autonomic division of the perip nervous system that acts to calm the body after an emeritary A) somatic division.	
B) sympathetic division. C) parasympathetic division.	division.
51) TheBlank of the autonomic division peripheral nervous system directs the body to store enduse in emergencies.	
A) somatic divisionB) sympathetic divisionC) parasympathetic division	D) dendritic division
52) Which of the following situations is most likely involve the action of the parasympathetic nervous syst	,
A) Brooke accidentally touches a hot iron, and immediately jerks her hand away. B) Callie panics when she mistakes her roomm a thief, but she relaxes after having a glass of water. C) Denise walks toward her car in a deserted stand is alarmed when a strange-looking man appears or	ready to go to bed and is alarmed when she sees a stranger at her window.
	53) Izzy sees a snake in

her backyard. Her pupils dilate, and her heart starts pounding. Her breathing is shallow and rapid. HerBlank nervous system is active.	
A) parasympathetic B) sympathetic	C) hematopoietic D) somatic
54) The study of the effects of heredity on how people conduct themselves is known as	
A) behavioral genetics.B) classical genetics.C) development genetics.	D) molecular genetics.
55) Tara is an 18-year-old with a rare and inherited form of childhood blindness. Her case has been referred to Dr. Schilling, who is currently conducting experimental trials with people having this form of blindness. In his experiments Dr. Schilling targets the mutated genes responsible for the blindness and replaces them with functional pieces of	deoxyribonucleic acid (DNA). The treatment method that Dr. Schilling is trying to perfect is
A) gene therapy.B) gene sequencing.	C) gene mapping. D) gene linkage.
56) Which of the following statements best expresses the relationship between the nervous system and the endocrine system?	
A) The nervous system and the endocrine system operate independently of each other.B) The endocrine system is part of the central nervous	system. C) The endocrine system influences and is influenced by the nervous

system.			system.	
	D) The o	central nervous system is part of the endocrine		
57)	The	Blank gland is the major component of	growth and other parts of	
		vstem, which secretes hormones that control	the endocrine system.	
	A) esoph B) apocr	-	C) parotid D) pituitary	
58) the "1		Blank gland has sometimes been called ad" because it controls the functioning of the	rest of the endocrine system.	
	A) pituit B) esoph	•	C) apocrine D) parotid	
been	steroids to	onfides in his friend that he is considering o increase muscle mass. Gayle's friend has bout the effects of steroids and warns him that ay lead to		
	B) extre	nt and dangerous behavior. me tiredness. wing of the eyes and skin.	D) symptoms of type II diabetes.	
60) brain		of the following is a diagnostic use of the technique electroencephalography (EEG)?		
	ple scleros	ilitates more precise diagnosis of epilepsy and	D) It helps to identify the presence of brain tumors.	
	C) It fac	ilitates viewing individual circuits of neurons.		

- 61) Which of the following brain-scanning techniques is correctly matched with its description?
- A) Electroencephalogram (EEG): records the brain's electrical activity through electrodes
- B) Positron emission tomography (PET): uses magnetic fields to cause a momentary interruption of the brain's electrical activity
 - C) Functional magnetic resonance imaging (fMRI):

in the brain

D) Transcranial

traces biochemical activity

D) Transcranial magnetic stimulation (TMS): produces a graph of electrical wave patterns

62) Brent is taking part in an experiment in the cognitive neuroscience laboratory on campus. He is made to read silently sequences of words flashed on a computer screen. Simultaneously, the electrical activity of his brain is recorded through electrodes placed on the outside of his skull. The

brain-scanning technique used in this study is

- A) functional magnetic resonance imaging (fMRI).
- B) positron emission tomography (PET).
- C) electroencephalogram (EEG).

D) transcranial magnetic stimulation (TMS).

- 63) One of the newest brain-scanning techniques that is sometimes called a virtual lesion is
 - A) positron emission tomography (PET).
 - B) electroencephalogram (EEG).
 - C) transcranial magnetic stimulation (TMS).

- D) functional magnetic resonance imaging (fMRI).
- 64) Marisol is trying a new treatment for severe depression, in which a tiny region of her brain is exposed to a
- strong magnetic field. Marisol is undergoing

- A) optogenetic therapy.
- B) transcranial magnetic stimulation.
- C) positron emission tomography.

D) functional magnetic resonance imaging.

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•	In the context of brain-scanning techniques, the ging field ofBlank involves genetic eering and the use of special types of light to view	neurons.
	A) optogenetics B) synaptic reflectance	C) neurogenetics D) transcranial magnetic stimulation
66) resear	In the context of brain-scanning techniques, rchers are developing hydrogel embedding methods to	D) determine the
	A) make unresponsive and mutated genes inoperative.	D) determine the composition of the human genome.
circui	B) view individual brain cells and the wiring of brain try.C) cause interruptions in the brain's electrical activity.	
67) asks h	Sofia is learning about the human brain. Her teacher ner to identify a part of the brain's central core. Which of	the following should she choose?
	A) the cerebellum B) the cerebral cortex	C) the hippocampus D) the spinal cord
68)	Which of the following is a function of the medulla?	
	A) maintaining body movement and balanceB) coordinating muscle movementsC) maintaining body temperature	D) regulating breathing and heartbeat

69)

The pons serves to

	B) relay sensory information to the brain's association	memories.
areas.	C) integrate movement between the left and right	
70)	Identify a true statement about the cerebellum.	
mamm	A) It is sometimes referred to as the "animal brain" e its structures and functions are like those of other als. B) Drinking too much alcohol may depress the activity cerebellum.	C) It is involved in regulating sleep. D) Injury to the cerebellum can produce striking changes in behavior.
_	The part of the brain extending from the medulla h the pons and made up of groups of nerve cells that mediately activate other parts of the brain to produce	general bodily arousal is called the
	A) reticular formation. B) thalamus.	C) cerebellum. D) sarcoplasmic reticulum.
72) the mid	TheBlank is the part of the brain located in ddle of the central core that acts primarily to relay	information about the senses.
	A) thalamus B) cerebellum	C) hypothalamus D) amygdala

A) regulate breathing and heartbeat.

halves of the body.

D) consolidate

		78)	The uneven shape
	A) hindbrain B) sarcoplasmic reticulum		C) cerebral cortex D) hypothalamus
77) becaus	TheBlank is referred to as the "new brain" se of its relatively recent evolution.		
	A) basal lamina B) endocrine system		C) limbic system D) cerebral cortex
_	The structures of theBlank jointly control a of basic functions relating to emotions and self-vation, such as eating, aggression, and reproduction.		
	A) the amygdala B) the pons	callos	C) the thalamus D) the corpus
75) limbic	Which of the following structures is found in the system?		
	A) peristalsis. B) homeostasis.		C) ketoacidosis.D) hematopoiesis.
74) body's	The hypothalamus in the brain contributes to the maintenance of a steady internal environment called		
	A) medulla B) cerebellum		C) hypothalamus D) perichondrium

of the cerebral cortex

	A) enables sophisticated information processing.B) helps in the maintenance of body temperature.C) depresses the activity of the cerebellum.	D) helps in the identification of brain tumors.
79) motor	In the context of the cerebral cortex of the brain, the area is located in theBlank lobes.	
	A) occipital B) frontal	C) parietal D) temporal
stimul	In a neurophysiological investigation, a rat makes an intary gesture when a portion of its brain is electrically lated. The area of the brain that was most likely lated is the	
	A) parietal lobe. B) frontal lobe.	C) temporal lobe. D) occipital lobe.
	TheBlank area is the site in the brain of the that corresponds to each of the senses, with the degree stitivity related to the amount of the tissue allocated to ense.	
	A) attribution B) sensory	C) motor D) association
82) the	The somatosensory area is to the auditory area what Blank lobe is to the Blank lobe.	
	A) temporal; parietalB) parietal; occipitalC) occipital; parietal	D) parietal; temporal

83)	The visual area in the cortex is located in the		
	A) frontal lobe. B) occipital lobe.		C) temporal lobe. D) parietal lobe.
	TheBlank in the cerebral cortex are the site ner mental processes, such as thinking, language, ry, and speech.		
	A) sensory areas B) auditory areas	areas	C) motor areas D) association
85) contro	Which of the following is an executive function that is lled by the association areas of the cortex?		
	A) recalling information B) calculating expenses		C) setting goals D) speaking clearly
betwee	The brain's ability to change throughout the life span h the addition of new neurons, new interconnections en neurons, and the reorganization of informationsing areas is termed		
	A) neurogenesis. B) neuroplasticity.		C) neuroadaptation. D) neuromutability.
87)	Blank is the creation of new neurons		

- C) Neuromutability
- D) Neuropathy

- A) Neurogenesis
- B) Neuroadaptation
- **88)** Which of the following statements is most accurate in the context of the lateralization of language?
- A) Language processing is most likely to occur in the left side of the brain.
- B) Language processing is most likely to occur in the right side of the brain.
 - C) The control of language is shared equally between
- 89) Trevor is desperately trying to solve a verbal analogy as part of a standardized entrance examination. On the other hand, Sienna is giving an oral presentation in a political science class. Which of the following is a true statement in the context of this scenario?
- A) Sienna's right hemisphere is likely to be more active than her left hemisphere.
- B) Trevor's left hemisphere is likely to be more active than his right hemisphere.
 - C) Both Trevor and Sienna are likely to have suffered

- the hemispheres.
- D) The lateralization of language varies dramatically from one person to another.

- damage to their left hemispheres.
- D) Neither Trevor's nor Sienna's brain exhibits lateralization.
- **90)** Who among the following is likely to have suffered damage to the right side of the brain?
- A) Kate, who is able to achieve feng shui in her living room by rearranging the couch and the TV
- B) Norah, who is able to easily read the musical notes in her violin class
 - C) Denver, who is unable to read the look on his

girlfriend's face

D) Harry, who is unable to express what is on his mind to his friends

91) follow	Ramona is a woman. Stefan is a man. Which of the ving statements is true regarding the potential	differences in the corpus callosum between these two individuals?
	 A) Stefan's corpus callosum is probably the same size mona's. B) A part of Ramona's corpus callosum is rtionally larger than Stefan's. C) A part of Ramona's corpus callosum is slightly 	smaller than Stefan's. D) A part of Stefan's corpus callosum is much larger than Ramona's.
92) to stop	People whose corpus callosum has been surgically cut o seizures are called	
	A) deep-brain patients.B) dual-brain patients.C) split-brain patients.	D) bicameral patients.
	Mrs. Simon has learned to lessen the pain associated her migraines by voluntarily relaxing specific muscles ducing her blood pressure. This example illustrates	
	A) deep-brain stimulation.B) biofeedback.C) split-brain control.	D) transcranial stimulation.
94)	Briefly describe mirror neurons.	

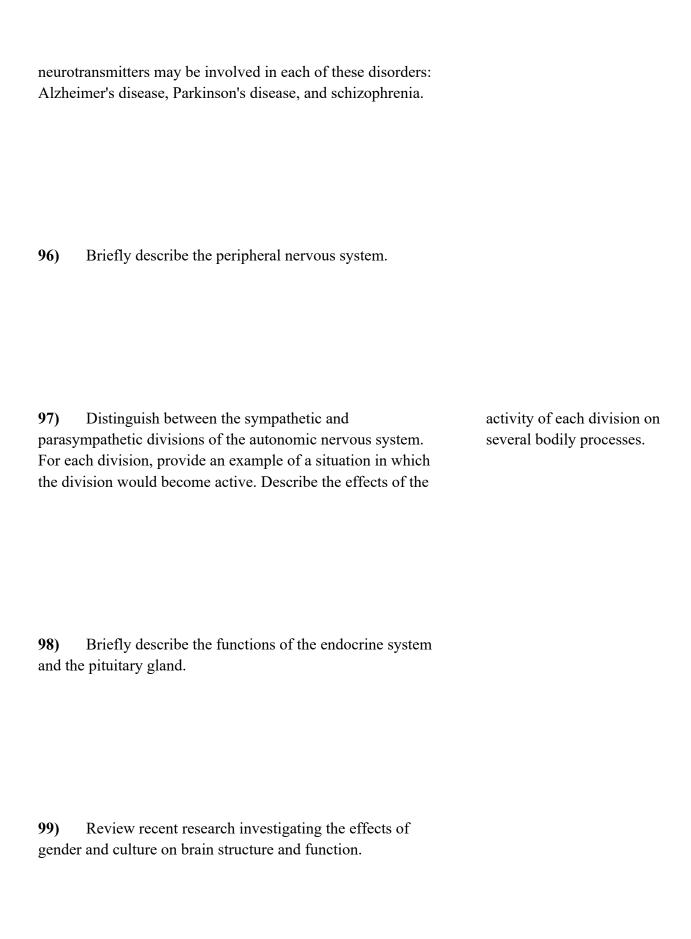
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Identify how

abnormal levels of specific

24

95)



100) What is biofeedback? Describe the procedure and identify some of the physical and psychological disorders where it is applied.

Answer Key

Test name: Psychology and Your Life with P.O.W.E.R Learning Author: Feldman 4th ch2

- 1) myelin sheath
- 2) all-or-none
- 3) endorphins
- 4) afferent neurons
- 5) autonomic
- 6) positron emission tomography (PET)
- 7) reticular formation
- 8) thalamus
- 9) limbic system
- 10) lobes
- 11) somatosensory
- 12) biofeedback
- 13) B
- 14) C
- 15) C
- 16) D
- 17) D
- 18) C

- 19) A
- 20) A
- 21) B
- 22) A
- 23) A
- 24) C
- 25) D
- 26) B
- 27) C
- 28) B
- 29) A
- 30) B
- 31) C
- 32) A
- 33) D
- 34) C
- 35) A
- 36) C
- 37) D
- 38) A
- 39) D

- 40) C
- 41) D
- 42) D
- 43) B
- 44) C
- 45) A
- 46) A
- 47) B
- 48) B
- 49) B
- 50) C
- 51) C
- 52) B
- 53) B
- 54) A
- 55) A
- 56) C
- 57) D
- 58) A
- 59) A
- 60) B

- 61) A
- 62) C
- 63) C
- 64) B
- 65) A
- 66) B
- 67) A
- 68) D
- 69) C
- 70) B
- 71) A
- 72) A
- 73) C
- 74) B
- 75) A
- 76) C
- 77) C
- 78) A
- 79) B
- 80) B
- 81) B

- 82) D
- 83) B
- 84) D
- 85) C
- 86) B
- 87) A
- 88) A
- 89) B
- 90) C
- 91) B
- 92) C
- 93) B