MULTIPLE CHOICE

1.	What is the proper na a. somas b. nuclei c. neurons d. neurilemmas	ame for	nerve cells?			
	ANS: C	PTS:	1	REF:	54	BLM: remember
2.	Everything you do, that ions b. somas c. synapses d. neurons	nink, or	feel originates	within	which of the fo	llowing cells?
	ANS: D	PTS:	1	REF:	54	BLM: remember
3.	What are the major p a. dendrites, nucleu b. dendrites, soma, c. dendrites, axon, d. dendrites, soma,	s, soma cell boo soma, a	n, and synapse dy, and neuriler nd synapse			
	ANS: D	PTS:	1	REF:	54	BLM: remember
4.	Which part of the net a. the axon b. the dendrites c. the soma d. the nucleus	iron tra	nsmits (conduc	ets) info	rmation?	
	ANS: A	PTS:	1	REF:	54	BLM: remember
5.	In what order do sign a. soma, axon, dend b. axon, dendrite, so c. dendrite, soma, a d. dendrite, axon, so	lrite, ax oma, ax xon, ax	on terminal on terminal on terminal	ugh a n	euron?	
	ANS: C	PTS:	1	REF:	54	BLM: remember
6.	Which part of the net a. the soma b. the axon c. the axon termina d. the dendrites		most likely to i	ntegrate	e messages?	
	ANS: A	PTS:	1	REF:	54	BLM: remember

7.	Approximately how in a. 1 billion b. 5 billion c. 50 billion d. 100 billion	nany ne	eurons are in th	e huma	n brain?	
	ANS: D	PTS:	1	REF:	54	BLM: remember
8.	Which part of a neuro a. the dendrites b. the neurotransmir c. the axon d. the soma		ves a signal fro	om anot	her neuron?	
	ANS: A	PTS:	1	REF:	54	BLM: remember
9.	Which part of the neurons? a. the neurilemma b. the ion channels c. the axon terminal d. the terminal vesion	ls	s branching fibr	res that	link up with th	e dendrites and somas of adjoining
	ANS: C	PTS:	1	REF:	54-55	BLM: remember
10.	An inactive neuron is a. resting potential b. depolarization c. action potential d. ionic potential	said to	be in which sta	ate?		
	ANS: A	PTS:	1	REF:	56	BLM: remember
11.	Which of the following a. volume potential b. ion potential c. action potential d. dendrite potential	C	rs when a neur	on reac	hes its threshol	d?
	ANS: C	PTS:	1	REF:	56	BLM: remember
12.	During which of the a. the resting potent b. the action potentia c. the ionic potentia d. the resting polari	ial al l	ng states does tl	he inter	ior of the axon	briefly become positive?
	ANS: B	PTS:	1	REF:	56	BLM: remember

13.	What is the name for a. an action potential b. a resting potential c. an ionic potential d. a synaptic poten	ial al ıl	e impulse that s	weeps	down the axon	at up to 320 kilometres per hour?
	ANS: A	PTS:	1	REF:	56	BLM: remember
14.	During the resting po a. potassium ions b. chlorine ions c. sodium ions d. iodine ions	otential,	to what is the a	axon's i	membrane impe	ermeable?
	ANS: C	PTS:	1	REF:	56 (Fig. 2.2)	BLM: remember
15.	When the neuron is a. sodium ions that b. chloride ions c. potassium and c. d. positive sodium	haven't	t picked up a ch		cals lie outside	the neuron?
	ANS: D	PTS:	1	REF:	56 (Fig. 2.2)	BLM: remember
16.	When the axon's ion a. sodium ions b. potassium ions c. chlorine ions d. iodine ions	channe	ls open during	an actio	on potential, wh	nat type of ions rush into the cell?
	ANS: A	PTS:	1	REF:	56 (Fig. 2.2)	BLM: remember
17.	 How fast does a nerve impulse sweep through a neuron? a. at a maximum of 320 kilometres an hour b. at the speed of light c. at varying speeds depending on the neuron's myelination d. at varying speeds depending on the neuron's level of excitation 					
	ANS: A	PTS:	1	REF:	56	BLM: remember
18.	Regarding neuronal a. Nerve cells are c b. Action potential c. An action currer d. All of the neuron	continuo s occur o nt crosse	ously active. completely, or a s the synapse c	not at a	ll. ely, or not at all	
	ANS: B	PTS:	1	REF:	57	BLM: remember

19. To what part of the neuron does the "all-or-nothing event" apply?

a. the axon

		oma lendrite ynapse					
	ANS: A		PTS:	1	REF:	57	BLM: remember
20.	a. the to find b. the to c. the let	ime when the re ime necessar ength of time	e potent y for tra a neur	ansmission acro	s below oss the tinuous	v its resting leve synapse ly	el and becomes less willing
	ANS: A		PTS:	1	REF:	58	BLM: remember
21.	below its chemical a. a neg b. an ac c. a syr	s resting level	l and is es, "I c otential l	therefore less a an't right now,	able to	fire. Other neur	napse. The action potential drops cons in the area are asking for more." What do we call this "break"?
	ANS: A		PTS:	1	REF:	58	BLM: higher order
22.	a. It refb. It isc. It refd. It is	Ters to neurot the same pro- Ters to neurot the same pro-	ransmit cess as ransmit cess as	rge of a nerve in tters becoming an "all-or-noth tters entering th a synaptic pote	stuck wing evene axon ntial	vithin the axon. nt."	
	ANS: B		PTS:	1	REF:	56-57	BLM: remember
23.	a. synab. synac. axon		iny gap	s that separate	neuron	s from one anot	ther?
	ANS: A		PTS:	1	REF:	58	BLM: remember
24.	a. ionicb. ence	gap phalin terminal	he mici	roscopic space l	betwee.	n two neurons?	
	ANS: D)	PTS:	1	REF:	58	BLM: remember

25.	What do neurotransia.a. receptorsb. synapsesc. cell bodiesd. axonic junctions		ave to travel ac	cross in	order to travel	between cells?
	ANS: B	PTS:	1	REF:	58	BLM: remember
26.	What is the name for neurons? a. synapses b. somas c. inhibitors d. neurotransmitter		cals that are sto	red wit	hin vesicles and	d either excite or inhibit other
	ANS: D	PTS:	1	REF:	58	BLM: remember
27.	What is the term for a. receptor sites b. synaptic sites c. axonic sites d. ionic sites	the tiny	areas on the ce	ell mem	brane that are s	sensitive to neurotransmitters?
	ANS: A	PTS:	1	REF:	59	BLM: remember
28.	Chemical communica. neurilemmas b. neurotransmitter c. somas d. telodendrias		etween neurons	involv	es the release o	f which of the following?
	ANS: B	PTS:	1	REF:	58	BLM: remember
29.	Curare causes paraly neurotransmitter. W a. dopamine b. acetylcholine c. serotonin d. enkephalins					competing with a type of e compete?
	ANS: B	PTS:	1	REF:	59	BLM: remember
30.	In helping to relieve regulators called? a. dopamine b. neural networks c. enkephalins d. norepinephrine	pain and	d stress, the bra	in proc	luces opiate-lik	te neural regulators. What are these
	ANS: C	PTS:	1	REF:	59	BLM: remember

31.	 What is the function of neuropeptides? a. Neuropeptides carry messages across synapses, as do neurotransmitters. b. Neuropeptides regulate the activity of neurotransmitters. c. Neuropeptides are essential in activating muscles. d. Neuropeptides increase the speed of the action potential. 						
	ANS: B	PTS:	1	REF:	59	BLM:	remember
32.	Which neurotran sometimes assoc a. acetylcholine b. serotonin c. endorphins d. dopamine	iated with ch		he "rur	nner's high," ac	upunctu	ure, and the euphoria
	ANS: C	PTS:	1	REF:	60	BLM:	higher order
33.	Which of the following an europeptide b. acetylcholing c. reflex arcs d. resting poten	es e	olved in regul	ating th	e activity of ne	eurons?	
	ANS: A	PTS:	1	REF:	59	BLM:	remember
34.	What is the name a. myelin b. neurilemma c. soma d. nodes of Rar		y substance wr	apped a	around axons?		
	ANS: A	PTS:	1	REF:	58	BLM:	remember
35.	 What is the function of the myelin that is wrapped around the axon? a. Myelin helps nerve cells remain continuously active. b. Myelin helps electrical currents cross the synapse. c. Neurons need myelin to fire. d. Myelin protects, insulates, and speeds the transmission of a nerve impulse. 						
	ANS: D	PTS:	1	REF:	58	BLM:	remember
36.	How will this aff a. Transmission b. Transmission c. There will be d. The effect w	Tect transmis in is likely to in is likely to the no effect of ill depend or	sion of neural a slow down. speed up. n transmission. n Adriana's die	informa	ation?		her brain to disintegrate.
	ANS: A	PTS:	1	REF:	38	BLM:	higher order

37.		a disease in which the being attacked by this			s and destroys myelin. Which
	ANS: B	PTS: 1	REF:	58	BLM: higher order
38.	Which of the following at the sympathetic states. The sympathetic states are the role of connection of the role of t	syndrome ector neurons	ment in	the understand	ling of the brain's neurobiology?
	ANS: B	PTS: 1	REF:	60	BLM: remember
39.	What do we call the a. fluidgenesis b. resiliency c. neurogenesis d. brain plasticity	production of new bra	in cells'	?	
	ANS: C	PTS: 1	REF:	60	BLM: remember
40.		pes of missing or dama			o damaged areas of the brain, mature
	ANS: D	PTS: 1	REF:	61	BLM: remember
41.	a. the growth of needb. the reconnectionc. the structural character	<u>.</u>	omplex	or demanding e	environments
	ANS: C	PTS: 1	REF:	61	BLM: remember
42.	a. the somatic and ab. the central and soc. the central and p	jor components of the autonomic nervous system omatic nervous system eripheral nervous system and parasympathetic nervous 1	stems ns ems	systems	BLM: remember
	1110.	110. 1	1111.	~ <u>~</u>	Dani. Tememoei

43.	Anna was in a car as Which component of a. sympathetic ner b. peripheral nervous c. central nervous d. autonomic nervous	of her nervous system system	vous system w em n		-	nat impaired her ability to speak. d?
	ANS: C	PTS:	1	REF:	62	BLM: higher order
44.	What is the main co a. the central nerve b. the peripheral n c. the somatic nerve d. the autonomic n	ous syster ervous sy vous syste	m estem em	systen	n?	
	ANS: A	PTS:	1	REF:	62	BLM: remember
45.	Which of the follow a. the brain b. the brain and sp c. components tha d. sensory neurons	inal cord t lie outsi	•		•	
	ANS: C	PTS:	1	REF:	62	BLM: remember
46.	What are the main ca. somatic and aut b. sympathetic and c. afferent and effed. reticular and lin	onomic sy l parasym erent syst	ystems apathetic systemens		ous system?	
	ANS: A	PTS:	1	REF:	62	BLM: remember
47.	Steve raises his hand command would trata. the somatic syst b. the autonomic strates c. the sympathetic d. the parasympath	vel through em ystem system	gh which nerve		-	e spinal cord to the arm muscles, this
	ANS: A	PTS:	1	REF:	62	BLM: higher order
48.	Which system contra. the autonomic notes the central nervel c. the somatic nervel d. the endocrine system.	nervous sy ous syster vous syste	ystem m			
	ANS: A	PTS:	1	REF:	62	BLM: higher order

49.	a. the spinal cordb. the sympathetic	c nervous system	if the peripheral nervous	s system?	
	ANS: B	PTS: 1	REF: 63	BLM: higher order	
50.	Which of the follow preparing us to respand the somatic system. The peripheral structure is the sympathetic direction.	pond to stressful ev stem system c system		onse system, because of its importa	nce in
	ANS: C NOT: WWW	PTS: 1	REF: 63	BLM: remember	
51.	When a big, nasty, "fight or flight" res a. the somatic sys b. the autonomic c. the sympathetic d. the parasympat	ponse? stem system c system	ı, which nervous system	is directly responsible for produci	ng the
	ANS: C	PTS: 1	REF: 63	BLM: higher order	
52.	Which nervous sys a. the sympathetic b. the parasympat c. the somatic sys d. the autonomic	c system hetic system stem	ax the body, returning it	to a lower level of arousal?	
	ANS: B	PTS: 1	REF: 63	BLM: remember	
53.	b. dendrite, axon,	, motor neuron, an axon terminal , motor neuron, an	in a reflex arc? d the nodes of Ranvier d connector neuron		
	ANS: C	PTS: 1	REF: 64	BLM: remember	
54.	and then carry this a. sensory neuron b. motor neurons c. connector neur d. dendritic neuro	information to the as	brain?	ment through specialized receptor of	organs,
	ANS: A	PTS: 1	REF: 64	BLM: remember	

55.	which neurons take a. connector neuro b. motor neurons c. sensory neurons d. dendrite neuron	ons	tion away from	the bra	ain, and toward	I muscles and glands?
	ANS: B	PTS:	1	REF:	64	BLM: remember
56.	What is a basic respa. an autonomic reb. a cranial arcc. an effector refled. a reflex arc	eflex	tern, organized	in the	spinal cord?	
	ANS: D	PTS:	1	REF:	64	BLM: remember
57.	A barefoot girl step the nervous system a. the brain b. the spinal cord c. sensory neurons d. sympathetic ner	is involv	•		oack in respons	e to the pain. Which component of
	ANS: B	PTS:	1	REF:	64	BLM: higher order
58.	 Which of the following statements briefly describes reflexes? a. Reflexes take place in the muscles. b. Reflexes occur without instructions from the brain. c. Reflexes are voluntary. d. Reflexes send information or signals to the brain. 					
	ANS: B	PTS:	1	REF:	64	BLM: remember
59.	What is the name for sensory information a. ablations b. clinical studies c. deep lesionings d. ESB (electrical	1?			changes in how	we behave, think, and take in various
	ANS: B	PTS:	1	REF:	65	BLM: remember
60.	Electrodes have been following involves a. deep lesioning b. ablation c. electrical stimulation d. recording the si	the use o	f electrodes? muscles			function of the brain. Which of the
	ANS: A	PTS:	1	REF:	65	BLM: remember

61.	 Steve is using magnetic resonance imaging (MRI) to determine if there are any structural abnormalities in the brains of people who suffer from Parkinson's disease. What type of scientist is Steve? a. a biopsychologist b. a developmental psychologist c. a cognitive psychologist d. a pharmacologist 					
	ANS: A	PTS: 1	REF:	65	BLM: higher order	
62.	2. If researchers wished to study the response of an individual neuron in the brain to a particular sensory stimulus, what would they most likely use? a. deep lesioning b. a micro-electrode c. an electroencephalograph (EEG) d. computed tomography scanning (CT)					
	ANS: B NOT: WWW	PTS: 1	REF:	66	BLM: higher order	
63.	 a. magnetic resonance imaging (MRI) b. computed tomography scanning (CT) c. positron emission tomography (PET) d. electroencephalogram (EEG) 					
	ANS: D	PTS: 1	REF:	66	BLM: remember	
64.	the brain. Which of ta. magnetic resonab. positron emission	the following tests wor nce imaging (MRI) on tomography (PET) graphy scanning (CT)			y have suffered structural damage to ensional model of Clarence's brain?	
	ANS: A	PTS: 1	REF:	67	BLM: higher order	
65.	 Which brain-imaging equipment would most likely be used to assess the pleasure felt from eating, using drugs, or feeling love for another person? a. magnetic resonance imaging (MRI) b. computed tomography scanning (CT) c. positron emission tomography (PET) d. micro-electrode recording 					
	ANS: C	PTS: 1	REF:	67	BLM: higher order	

66.		g especi gram (Ence imag raphy so	ially active braining (MRI) canning (CT)			was marked with a radioactive ipated in a study that employed what
	ANS: D	PTS:	1	REF:	67	BLM: higher order
67.	Which of the followi a. computed tomog b. electroencephalo c. magnetic resonar d. positron emission	raphy so gram (Ence imag	canning (CT) EEG) ging (MRI)	es a col	our-coded imaş	ge of the brain's activity?
	ANS: D	PTS:	1	REF:	67	BLM: remember
68.	What part of the brainervous system? a. the cerebral corte b. the cerebrum c. the cerebellum d. the corpus callos	ex	y 3 millimetres	thick, y	yet contains 70	percent of the neurons of the central
	ANS: A	PTS:	1	REF:	69	BLM: remember
69.	Where would you fir a. the hypothalamu b. the thalamus c. the cerebellum d. the cerebral corte	S	ost obvious dif	ference	between the h	uman brain and the brain of a fish?
	ANS: D	PTS:	1	REF:	69	BLM: higher order
70.	What is the largest be a. the cerebellum b. the cerebrum c. the frontal lobes d. the grey matter of					
	ANS: B	PTS:	1	REF:	69	BLM: remember
71.	Within higher-order a. cerebralization b. hemispherization c. corticalization d. reticulation		, what do we ca	all the i	ncreased size a	nd wrinkling of the cerebral cortex?
	ANS: C	PTS:	1	REF:	69	BLM: remember

72.	 What have positron emission tomography images (PET scans) revealed to us about the connection between our brains and problem-solving abilities? a. We use less than 10 percent of our brains when we try to solve problems. b. Smarter problem solvers' brains use more energy than poorer problem solvers' brains. c. Poorer problem solvers' brains use more energy than smarter problem solvers' brains. d. There are no specific areas of the brain dedicated to problem solving. 					e problems. problem solvers' brains. problem solvers' brains.
	ANS: C	PTS:	1	REF:	68-69	BLM: remember
73.	Which of the follows a. positive speech of b. motor neglect c. the experience of d. having a split broad	effects f an "ali	en" arm	of havi	ng a stroke?	
	ANS: C	PTS:	1	REF:	70	BLM: remember
74.	A stroke causes dam be impaired? a. the right side b. the left side c. the right cerebra d. the left cerebral	l cortex	ne motor area o	f a wor	man's left hemi	sphere. What part of her body would
	ANS: A	PTS:	1	REF:	70-71	BLM: higher order
75.	As a result of a strok would cause a loss o a. movement on the b. movement on the c. feeling on the led. feeling on the rig	f which e left sic e right s ft side o	ability? le of the body ide of the body f the body		right hemisphe	re of the somatosensory area. This
	ANS: C	PTS:	1	REF:	70-71	BLM: higher order
76.	Henry, a stroke victi a. ignore the side o b. ignore his own p c. draw a picture w d. ignore the side o	f the boaralyzed ith the u	dy on the same d arm or leg apper half miss	side as	the cerebral da	owing would he be most likely to do? nmage
	ANS: B	PTS:	1	REF:	70-71	BLM: higher order
77.	In split-brain surgery a. the cerebellum b. the hypothalamu c. the corpus callos d. the pituitary glar	sum	eon disconnect	s the tw	vo hemispheres	by severing which of the following?
	ANS: C	PTS:	1	REF:	71	BLM: remember

78.	Velishea has severe esuggests a surgery tha. cutting the corpub. removing the hip c. stimulating the bd. severing Broca's	at mights callos ppocamparain's p	t help. What wo um ous	ould thi		medication. Therefore, her doctor ve?
	ANS: A	PTS:	1	REF:	71	BLM: higher order
79.	Based on research wa. hemispheric spectors. cross lateralization. c. corticalization. d. pleasure centres.	cializatio		ain, we	know that hum	nans have which of the following?
	ANS: A	PTS:	1	REF:	71	BLM: remember
80.	Based on research which of the following as spatial abilities be facial recognitions. language and speed dance, movement	ng? n eech			e know that the	right hemisphere is specialized for
	ANS: B	PTS:	1	REF:	72	BLM: remember
81.	According to hemisphemisphere specializa. drawing pictures b. musical talent c. speech d. recognizing and	ed?		eory, fo	r which of the	following is the average person's left
	ANS: C	PTS:	1	REF:	72	BLM: remember
82.	A person suffers a str suffered damage? a. the frontal lobe b. the occipital lobe c. the right hemisple d. the left hemispher	e here	l loses the abili	ty to re	cognize familia	ar faces. What part of the brain likely
	ANS: C	PTS:	1	REF:	72	BLM: higher order
83.	Which brain area is rate. the hippocampus b. the right hemisple c. the association and the left hemisphere.	here rea	olved in our ap	preciat	ion of music, a	rt, and dance?
	ANS: B	PTS:	1	REF:	72	BLM: remember

84.	a. A larger area ofb. A larger area ofc. A larger area of	f somatose the occip the moto	ensory cortex is pital lobes is assor or cortex is asso	s associate sociated	iated with your d with your lips with your lips t	lips than with your elbow. It is than with your elbow.
	ANS: A	PTS:	1	REF:	73	BLM: higher order
85.	What part of the cora. the occipital lobe b. the frontal lobe c. the temporal lob d. the parietal lobe	be be	esses visual info	ormatic	on?	
	ANS: A	PTS:	1	REF:	73	BLM: remember
86.	_	ou while I be e				gnetic resonance imaging (fMRI) ald activity register most strongly?
	ANS: A	PTS:	1	REF:	73	BLM: higher order
87.	which lobe is the se a. the frontal lobe b. the parietal lobe c. the occipital lob d. the temporal lob	ensation of	f the seat again	st your	bottom being p	
	ANS: B	PTS:	1	REF:	73	BLM: higher order
88.	Which of the follow a. amygdala b. thalamus c. parietal d. limbic	ving is a l	obe of the corte	ex?		
	ANS: C	PTS:	1	REF:	73	BLM: remember
89.	Where is the motor a. in the frontal lo b. in the occipital c. in the parental l d. in the temporal	be lobe obe	cated?			
	ANS: A	PTS:	1	REF:	74	BLM: remember

90.	Voluntary muscle me motor area located? a. in the somatosen b. in the parietal lob c. in the frontal lob d. in the temporal leads.	sory lob be e	-	nn area	of the cortex ca	alled the motor area. Where is the
	ANS: C NOT: WWW	PTS:	1	REF:	74	BLM: remember
91.	After Phineas Gage of part of his brain was a. the thalamus b. the temporal lobe c. the parietal lobe d. the frontal lobe	damage		olow to	the head, he ha	d dramatic personality changes. What
	ANS: D	PTS:	1	REF:	74	BLM: higher order
92.	Which of the following as that a person can be that a person can central that the frontal led.	not live not wal obes inf	without the frok, talk, or think luence personal	ontal lo if the i lity	be frontal lobe is d	
	ANS: C	PTS:	1	REF:	74-75	BLM: remember
93.	a. There are more ofb. There are more of	cells for cells for cells for	smaller body parts that	arts. rts. are res	sponsible for co	ls in the motor cortex? complex movements.
	ANS: C	PTS:	1	REF:	74	BLM: remember
94.	Which of the following a. shoulders b. neck c. torso d. fingers	ng body	y parts has the g	greatest	representation	on the motor cortex?
	ANS: D	PTS:	1	REF:	74	BLM: higher order
95.	b. Women would bc. Men would be un	ıld be ju e more nable to	ast as likely to c likely than men understand the	occur in to con meani	the left or the supensate for the ng of words.	right frontal lobe.
	ANS: B	PTS:	1	REF:	75	BLM: remember

96.	After damage to Bromen?	oca's area, wh	ny do women tend	to regain more	e of their lost language abilities than				
	a. because Broca's area in women is larger than in men, making it harder to damage completely in an accident								
	b. because womenc. because women	tend to have tend to use b	oth hemispheres	of the brain for					
	ANS: C	PTS: 1	REF:	75	BLM: remember				
97.	What area is involve a. Broca's area b. the somatosenso c. Wernicke's area d. the occipital lob	ory area	ing speech sound	s and words?					
	ANS: A	PTS: 1	REF:	75	BLM: remember				
98.	Following her stroke and what was being a. Wernicke's area b. Broca's area c. the corpus callo d. the hippocampu	said to her. V			ut could understand what she read damaged?				
	ANS: B	PTS: 1	REF:	75	BLM: higher order				
99.	What area of the bra a. Broca's area b. the somatosenso c. Wernicke's area d. the occipital lob	ory area	l in understanding	g speech sound	s?				
	ANS: C	PTS: 1	REF:	75	BLM: remember				
100.	What are the three na. brainstem, cerebb. forebrain, midbcc. medulla, pons, ad. hindbrain, midb	orum, and cero rain, and corte and cerebellur	ebellum ex n	tex?					
	ANS: D	PTS: 1	REF:	77	BLM: remember				
101.	Severe damage to wa. the pons b. the amygdala c. the cerebellum d. the medulla	hich of the fo	ollowing would be	e most likely to	result in death?				
	ANS: D	PTS: 1	REF:	77	BLM: remember				

102.		oart of Sa				cket and her finely coordinated d in order to facilitate such
	ANS: A	PTS:	1	REF:	77	BLM: higher order
103.	A young gymnast is affected? a. the pons b. the hypothalam c. the reticular for d. the cerebellum	us	dizzy and is un	able to	stay on the bala	ance beam. Which part of her brain is
	ANS: D NOT: WWW	PTS:	1	REF:	77	BLM: higher order
104.	A golfer is practising routine successfully a. the hypothalam b. the pons c. the cerebellum d. the medulla	?	ings. What part	of the	brain will be es	specially active so he can perform his
	ANS: C	PTS:	1	REF:	77	BLM: higher order
105.	Which part of the b a. the forebrain b. the midbrain c. the hindbrain d. the brainstem	rain cont	rols the most co	omplex	aspects of thou	ight and behaviour?
	ANS: A NOT: WWW	PTS:	1	REF:	78	BLM: remember
106.	Which part of the b a. the reticular for b. the pons c. the frontal lobe d. the hypothalam	mation	sponsible for h	unger, t	hirst, sex, and t	temperature regulation?
	ANS: D	PTS:	1	REF:	78	BLM: remember
107.	A psychology stude temperature. What ja. the thalamus b. the hypothalam c. the limbic systed. the medulla	part of th us				exual behaviour and body
	ANS: B	PTS:	1	REF:	78	BLM: higher order

108.	You're become trigger these for all the corpus b. the hippood c. the thaland. the hypothesis of the corpus because of the thaland.	reelings? s callosum campus nus	hungry, thirsty	, and w	varm while stud	ying. Which brain structure may
	ANS: D	PTS:	1	REF:	78	BLM: higher order
109.	Which brain s a. the hypoth b. the hippoo c. the amygo d. the thalan	halamus campus dala	tes the secretio	n of ho	rmones from th	ne pituitary gland?
	ANS: A	PTS:	1	REF:	78	BLM: remember
110.	a. delivery ob. stopping oc. stimulating	of electrical stire electrical stimung the "pleasure	of the amygdal nulation to the lation to the lin e" centres of the erous stimuli th	limbic nbic sy: e limbic	stem	ponse
	ANS: D	PTS:	1	REF:	78	BLM: remember
111.		tely terrified. V campus dala			n a cat's limbic system was sti	system. The cat suddenly jumps up imulated?
	ANS: B	PTS:	1	REF:	78	BLM: higher order
112.	a. the hypotl b. the hippoo c. the somat d. the thalan	e has most like halamus campus osensory corte nus	ly been damage	ed?		nnable to form new memories. Which
	ANS: B	PTS:	1	REF:	79	BLM: higher order
113.	of these effects a. delayed so b. excessive c. homosexu	ts? exual maturity facial hair on a	a woman's face		ve a variety of e	effects. Which of the following is one
	ANS: B	PTS:	1	REF:	82	BLM: remember

114.	a. dv b. vir c. me	are two disorde varfism and acro rilism and acro ental retardatio gantism and pr	romegaly megaly on and d	warfism	d?		
	ANS:	A	PTS:	1	REF:	81	BLM: higher order
115.	a. the b. the c. the	e pineal gland a e thyroid and tl	and the he RAS and the	thalamus ne hypothalamu		s "master glanc	l" is directed by?
	ANS:	C	PTS:	1	REF:	81	BLM: remember
116.	a. Ni b. Ni c. Th the d. Th	inety-seven per inety-eight per ne language-pro e observation on ne language-pro	cent of cent o	right-handed p left-handed peo dominant hem position while	eople pople properties phere writing.	rocess speech for duce speech from cannot be position can be determined.	ant hemisphere of the brain? from the left hemisphere. om the left hemisphere. tively determined through and only by briefly
	ANS:	A	PTS:	1	REF:	86	BLM: remember
СОМ	PLETI	ON					
1.				asps a basketba l by			ne feel of the basketball is
	ANS:	sensory neuro	ons				
	PTS:	1	DIF:	application			
2.	Some	axons are cove	red wit	h a fatty coating	g called	l	·
	ANS:	myelin					
	PTS:	1	DIF:	factual			
3.	In spli	t-brain surgery	, doctor	rs must surgical	ly seve	r the	·
	ANS:	corpus callosu	ım				
	PTS:	1	DIF:	factual			
4.	The al	l-or-nothing la	w refers	s only to the			
	ANS:	axon					
	PTS:	1	DIF:	factual			

5.	When the neuron is in the resting state, the majority of the ions lying outside the axon are positively charged ions.
	ANS: sodium
	PTS: 1 DIF: factual
6.	The fact that once a neural impulse starts down an axon it will continue until it reaches the end of the axon—is known as thelaw.
	ANS: all-or-nothing
	PTS: 1 DIF: factual
7.	When a neuron is neither transmitting nor receiving information, it is said to be in a(n) state.
	ANS: resting
	PTS: 1 DIF: factual
8.	A child places her hand on a hot stove and immediately yanks her hand back because the neuron controls the simple reflex.
	ANS: connector
	PTS: 1 DIF: application
9.	The brain and the spinal cord make up the nervous system division known as the
	ANS: central nervous system
	PTS: 1 DIF: factual
10.	The awkward gait of a person who has had too much to drink is caused by the suppression of neuron in the
	ANS: cerebellum
	PTS: 1 DIF: application
11.	Vital reflexes such as heart rate, respiration, and blood pressure are controlled by a structure in the brain called the
	ANS: medulla
	PTS: 1 DIF: factual

12.	The area of the brain that is involved in understanding speech sounds is called					
	ANS:	Wernicke's an	rea			
	PTS:	1	DIF:	factual		
13.		ft and right he	_	res of the brain are connected by a bundle of nerve fibres called the		
	ANS:	corpus callosi	um			
	PTS:	1	DIF:	factual		
14.	The so	omatosensory a	ırea is lo	ocated in the part of the cortex called the		
	ANS:	parietal lobe				
	PTS:	1	DIF:	factual		
15.	The pa	art of the cortex	x that is	s involved in vision is called the		
	ANS:	occipital lobe				
	PTS:	1	DIF:	factual		
16.	When	the neural imp	oulse rea 	aches the end of a neuron, neurotransmitters are released into the		
	ANS:	synapse				
	PTS:	1	DIF:	factual		
17.	•			the head by a baseball, and now has problems seeing. He has most likely		
	ANS:	occipital lobe				
	PTS:	1	DIF:	application		

1. What are the functions of sensory neurons, motor neurons, and connector neurons?

ESSAY

	ANS: Student responses will vary.
	PTS: 1
2.	What is the difference between action potential and resting potential?
	ANS: Student responses will vary.
	PTS: 1
3.	Define and explain what happens during the negative after-potential.
	ANS: Student responses will vary.
	PTS: 1
4.	Pick any two neurotransmitters and explain their role in behaviour.
	ANS: Student responses will vary.
	PTS: 1
5.	Define and label the four lobes of the cortex.
	ANS: Student responses will vary.
	PTS: 1
6.	List and define the basic parts of the neuron.
	ANS: Student responses will vary.
	PTS: 1
7.	How did Phineas Gage's accident contribute to our understanding of the brain?
	ANS: Student responses will vary.
	PTS: 1
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8.	What roles do the sympathetic and parasympathetic systems play?
	ANS: Student responses will vary.
	PTS: 1
9.	Briefly list the specialized abilities of the left and right hemispheres.
	ANS: Student responses will vary.
	PTS: 1
10.	What does lateralization mean?
	ANS: Student responses will vary.
	PTS: 1
11.	What are endorphins, dopamine, and acetylcholine? Describe the roles they play in behaviour.
	ANS: Student responses will vary.
	PTS: 1
12.	Identify the major divisions of the nervous system, and describe their functions.
	ANS: Student responses will vary.
	PTS: 1
13.	Describe the function of the thalamus, cerebellum, and hypothalamus.
	ANS: Student responses will vary.
	PTS: 1
14.	Describe the somatosensory and motor functions of the cortex. Be sure to specify on which lobe they are located.
	ANS: Student responses will vary.
	PTS: 1

15.	Define the "fight or flight" response.
	ANS: Student responses will vary.
	PTS: 1
16.	Name and describe the subdivisions of the autonomic nervous system.
	ANS: Student responses will vary.
	PTS: 1
17.	Name and define the three major subdivisions of the brain.
	ANS: Student responses will vary.
	PTS: 1
18.	Name and define the forebrain structures.
	ANS: Student responses will vary.
	PTS: 1
19.	Describe the location and function of the adrenal glands.
	ANS: Student responses will vary.
	PTS: 1
20.	Describe the spinal cord and its functions.
	ANS: Student responses will vary.
	PTS: 1
21.	Describe the role of receptor sites in the communication process between neurons.
	ANS: Student responses will vary.
	PTS: 1

22	. Define myelin and discuss its purpose.
	ANS: Student responses will vary.
	PTS: 1
23	. Name and describe the two major divisions of the nervous system.
	ANS: Student responses will vary.
	PTS: 1
24	. Identify the five main imaging techniques used to study the brain, and discuss their different uses
	ANS: Student responses will vary.
	PTS: 1