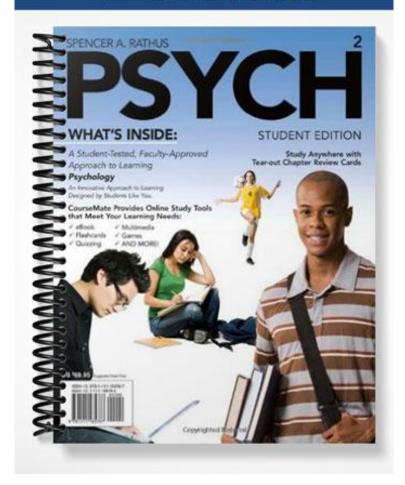
TEST BANK



MULTIPLE CHOICE

1.	Which of the followa. ideals, thoughts,b. imagery and cog	and p	lans	c.			ing of the nervous system? s, and cognitions
	ANS: D MSC: TYPE: Concep	DIF: otual	2	REF:	2-26	OBJ:	1
2.	A(n) is a a. axon b. neuron	a nervo	e cell.		dendrite glial cell		
	ANS: B MSC: TYPE: Factual		1 NOT:	REF: BTC	2-26	OBJ:	1
3.	remove d insulate neurons, an a. Schwann cells b. Neurons			n. c.	ducts from the Glial cells Myelin shea		ous system, nourish and
	ANS: C MSC: TYPE: Factual	DIF:	2	REF:	2-26	OBJ:	1
4.	The function of glia a. remove waste pr b. insulate and nou c. direct the growth d. all of these	oduct rish n	s from the ner eurons.	•			
	ANS: D MSC: TYPE: Factual	DIF:	2	REF:	2-26	OBJ:	1
5.	An axon's length ca a. 1 inch. b. 12 inches.	n rang	ge from a few	c.	eters to several feet. up to a mile.		
	ANS: C MSC: TYPE: Factual		1	REF:	2-27	OBJ:	1
6.	The part of the neura. dendrite. b. terminal.	on tha	t receives mes	c.	•	oring n	neuron is the
	ANS: A MSC: TYPE: Factual	DIF:	1	REF:	2-27	OBJ:	1

7.	The part of the neuron that sends messagea. dendrite.b. terminal.	c.	other neurons soma.	is the	
	ANS: D DIF: 1 R MSC: TYPE: Factual	EF:	2-27	OBJ:	1
8.	The cell body of a neuron contains the a. dendrites. b. axon.		nucleus.		
	ANS: C DIF: 2 R KEY: WWW MSC: TYPE: Factual	EF:	2-27	OBJ:	1
9.	The axon of a neuron ends in small bulb-lia. terminal buttons. b. myelin.	c.	ructures calle dendrites. glial cells.	d	
	ANS: A DIF: 1 R MSC: TYPE: Factual	EF:	2-27	OBJ:	1
10.	The white fatty material that insulates the a. cortex. b. myelin sheath.	c.	on is called the nodes of Ran soma.		
	ANS: B DIF: 1 R MSC: TYPE: Factual	EF:	2-27	OBJ:	1
11.	The minimizes leakage of elea. nodes of Ranvier b. synaptic cleft	c.	al current trav myelin sheat soma	_	long the axon.
	ANS: C DIF: 1 R KEY: WWW MSC: TYPE: Factual	EF:	2-27	OBJ:	1
12.	Within their first year of life, babies have acts because the of many neu a. myelin sheaths b. axons	rons c.			
	ANS: A DIF: 2 R MSC: TYPE: Factual	EF:	2-27	OBJ:	1
13.	A child without complete myelination will motor coordination for which of the follow a. The afferent neurons are damaged, cau b. The axon does not have sufficient myelo. The dendrite is not insulated with myelo. The leakage of electrical current being	ving ising clin collin.	reasons? the axon to svoating.	well.	
	ANS: B DIF: 2 R MSC: TYPE: Conceptual	EF:	2-27	OBJ:	1

14.		ntion is carried to the brain and sp glial neurons. schwann cells.	inal cord by
	ANS: A DIF: 2 REMSC: TYPE: Applied	2-27 OBJ: 1	
15.	If someone steps on your toe,, foot away.	motor neurons, tell you to quickl	y move your
		efferent neurons glial cells	
	ANS: C DIF: 2REF: 2-27 OB	1 MSC: TYPE: Appl	ied
16.	 If someone steps on your toes, resulting in p following describes this process? a. Afferent neurons transmit the sensation of followed by efferent neurons sending the b. Efferent neurons transmit the sensation of followed by afferent neurons sending the c. Efferent neurons transmit the sensation of followed by efferent neurons sending the d. Afferent neurons transmit the sensation of followed by afferent neurons sending the 	pain to the spinal cord and to the message to your foot to move. pain to the spinal cord and to the message to your foot to move. pain to the spinal cord and to the message to your foot to move. pain to the spinal cord and to the message to your foot to move.	brain brain brain
	ANS: A DIF: 3 REMANS: TYPE: Applied	2-27 OBJ: 1	
17.	from the hot iron is the result of nerve imputa. glial	• •	
	ANS: C DIF: 2 REMANSC: TYPE: Applied	2-27 OBJ: 1	
18.		glial cell is to interneuron. afferent neuron is to efferent ne	uron.
	ANS: D DIF: 2 REMANS: TYPE: Applied	2-27 OBJ: 1	
19.	During his rain storm experiment, Luigi Gal a. electricity is easily conducted by metal. b. lightening over-cooks frogs. c. neural impulses that travel along neuron d. neural impulses are only electrical in nat	are electrochemical in nature.	
	ANS: C DIF: 1 RE	2-27&28 OBJ: 1	

20.	a. by electrical transmissb. by chemical transmiss	ion. c.		ical transmission.
	ANS: C DIF: MSC: TYPE: Factual	1 REF:	2-27&28 OI	BJ: 1
21.	a. James b. Galvani	c.	eling along neuro Wundt Edison	ns are electrochemical.
	ANS: B DIF: MSC: TYPE: Factual	1 REF:	2-27&28 OI	BJ: 1
22.	The electrochemical discha. neural impulse. b. synapse.	c.	or neuron is calle neurotransmitte afferent impulse	er.
	ANS: A DIF: MSC: TYPE: Conceptual	1 REF:	2-27&28 OI	BJ: 1
23.	The resting potential of a a40 millivolts. b. +40 millivolts.	c.	-70 millivolts. +70 millivolts.	
	ANS: C DIF: MSC: TYPE: Factual	1 REF:	2-28 Ol	BJ: 1
24.	When a section of a neuro to sodium ion		eighboring neuro	ns, the cell membrane becomes
	a. positive b. permeable	c.	polarized impermeable	
	ANS: B DIF: MSC: TYPE: Factual	2 REF:	2-28 OI	BJ: 1
25.	In a resting state, fluid on outside.	the inside of the neu	iron is	charged relative to the
	a. positivelyb. negatively		equally electrically	
	ANS: B DIF: MSC: TYPE: Factual	2 REF: NOT: BTC	2-28 OI	BJ: 1
26.	a. A section of the neurob. An action potential ofc. The inside cell at the d	n has been stimulate about –70 millivolt listurbed area has ar	ed by a neighboring has been initiate action potential of	d.
	ANS: A DIF: MSC: TYPE: Applied	3 REF:	2-28 OI	BJ: 1

	The polarization of a neuron results in a resting potential of about -70 millivolts. This is followed by depolarization resulting in an action potential of $+110$ millivolts. This brings the membrane voltage to						
	a. + 40 millivolts.b 40 millivolts.		+180 millivolt -180 millivolts				
	ANS: A DIF: MSC: TYPE: Conceptual	2 REF:	2-28	OBJ: 1			
28.	When the cell membrane voltage to	-		this brings the membrane			
	a70 millivoltsb. +70 millivolts		-40 millivolts +40 millivolts	,			
	ANS: D DIF: MSC: TYPE: Factual	2 REF:	2-28	OBJ: 1			
29.	The inside of the cell at the millivolts.	ne disturbed area has	an action potent	tial of about			
	a70 b. +70		-40 +110				
	ANS: D DIF: MSC: TYPE: Factual	2 REF:	2-28	OBJ: 1			
30.	The electrical impulse that called a(n)	t stimulates the cond	luction of a neur	ral impulse along an axon is			
	a. electric potential.b. resting potential.	c. d.	action potential final potential.				
	ANS: C DIF:	1 REF	2-28	OBJ: 1			
	MSC: TYPE: Factual	i KEI.					
31.	MSC: TYPE: Factual		ne next section of	of the cell to become permeable			
31.	MSC: TYPE: Factual When an action potential	occurs, this causes the causes th	ne next section of sodium ions.	of the cell to become permeable			
31.	MSC: TYPE: Factual When an action potential to a. potassium chloride ion	occurs, this causes the causes th	sodium ions. sodium chlorid	of the cell to become permeable			
	MSC: TYPE: Factual When an action potential to a. potassium chloride ion b. depolarization. ANS: C DIF: MSC: TYPE: Factual	occurs, this causes the causes th	sodium ions. sodium chlorid 2-28	of the cell to become permeable de ions.			
	MSC: TYPE: Factual When an action potential to a. potassium chloride ion b. depolarization. ANS: C DIF: MSC: TYPE: Factual Neurons will not fire unle	occurs, this causes the sess the incoming mes	sodium ions. sodium chlorid 2-28	of the cell to become permeable de ions. OBJ: 1			
	MSC: TYPE: Factual When an action potential to a. potassium chloride ion b. depolarization. ANS: C DIF: MSC: TYPE: Factual Neurons will not fire unlet the a. threshold.	occurs, this causes the sess the incoming mess	sodium ions. sodium chlorid 2-28 sages combine t membrane. potential.	of the cell to become permeable de ions. OBJ: 1			

33.	same magnitude. This is due to the a. over stimulation of the sensory neuron.	c.	tly the sensory neurons will fire impulses of the damage in the sensory neuron. all of these.	ne
	ANS: B DIF: 3 REF MSC: TYPE: Applied	F:	2-29 OBJ: 1	
34.	triggered is called		same strength whenever its action potential is	
			the refractory period. the all-or-none principle.	
	ANS: D DIF: 1 REIMSC: TYPE: Factual	F:	2-29 OBJ: 1	
35.	If sodium is prevented from passing through a. the neuron has just fired. b. the neuron is in the refractory period.	c.	both a & b	
	ANS: C DIF: 2 REF	F:	2-29 OBJ: 1	
36.	The phase following firing during which a necalled the	eur	aron's action potential cannot be triggered is	
			resting potential. all-or-none period.	
	ANS: B DIF: 2 REF KEY: WWW MSC: TYPE: Factual	F:	2-29 OBJ: 1	
37.	 Which of the following is <i>NOT</i> true regarding. a. A synapse is bordered by an axon terming. b. A synapse is bordered by a dendrite. c. The neural impulse jumps across the synd. d. The synaptic cleft is the fluid-filled gap be across. 	nal i	I from the transmitting neuron.	
			2-29 OBJ: 1	
38.		c.	neuron across a junction called a receptor site. synapse.	
	ANS: D DIF: 1 REF KEY: WWW MSC: TYPE: Factual	F:	2-29 OBJ: 1	
39.	a. electrical impulses.	c.	minals, the vesicles release varying amounts o electrochemical substances. neurotransmitters.	of
	ANS: D DIF: 1 REF MSC: TYPE: Factual	F:	2-29 OBJ: 7	

40.	a. the nodes of ranvier.b. synaptic clefts.		synaptic vesic dendritic bran		
	ANS: C DIF: 1 I KEY: WWW MSC: TYPE: Factual	REF:	2-29	OBJ:	1
41.	Neurotransmitters find their way toneuron.		_ and subsequ	ently t	trigger firing of that
	a. receptor sitesb. terminal buttons		synaptic vesic transmitter sit		
	ANS: A DIF: 1 I MSC: TYPE: Factual	REF:	2-30	OBJ:	1
42.	 Which statement is NOT true regarding ra. Synaptic vesicles contain neurotransm b. Only six neurotransmitters have been c. Some neurotransmitters act to excite or receiving neurons. d. None of these. 	nitters ident	s. ified.	some	act to inhibit
	ANS: B DIF: 2 II MSC: TYPE: Conceptual	REF:	2-30	OBJ:	1
43.	 Which of the following statements is NO a. Neurotransmitters are stored in synap b. A neurotransmitter conveys a messag the axon to the terminal fibers. c. Neurotransmitters find their way to no firing. d. When the neural impulse reaches the amounts of neurotransmitters. 	tic ve e to a euron axon	sicles. neighboring n receptor sites terminals, the	euron and su vesicle	by traveling along bsequently trigger es release varying
	ANS: B DIF: 2 I MSC: TYPE: Conceptual	REF:	2-30	OBJ:	1
44.	At the synapse, acetylcholine will be a. excitatory. b. inhibitory.		either excitate neither excita		
	ANS: C DIF: 2 I MSC: TYPE: Factual	REF:	2-30	OBJ:	1
45.	The toxin curare prevents from the paralysis and often death. a. acetylcholine b. noradrenaline	c.	serotonin	ecepto	r sites in neurons, resulting
	ANS: A DIF: 1 I	REF:	2-30	OBJ:	1

46.	they prevent from being released	as the toxin curare, result in because linto the synapse. paralysis; acetylcholine
	1 1	hallucinations; serotonin
	ANS: C DIF: 3 REF MSC: TYPE: Factual	2-30 OBJ: 1
47.	shot with a poison dart. He immediately becamblocked the action of	n the early part of the 20th century, Eugene was me paralyzed. The toxin in the dart most likely
	a. acetylcholine.b. serotonin.cd	dopamine. noradrenaline.
	ANS: A DIF: 2 REF MSC: TYPE: Conceptual	2-30 OBJ: 1
48.		ocal restaurant, Mary was unable to breathe and nad ingested food contaminated with botulism,
		dopamine. noradrenaline.
	ANS: B DIF: 2 REF MSC: TYPE: Conceptual	2-30 OBJ: 1
49.	used for breathing. She probably took sometha. noradrenaline.	ion that paralyzed her and affected her muscles ing that blocked the action of acetylcholine. dopamine.
	ANS: C DIF: 3 REF MSC: TYPE: Conceptual	2-30 OBJ: 1
50.		ry, we would expect it to be prevalent in the amygdala. medulla.
	ANS: B DIF: 3 REF KEY: WWW MSC: TYPE: Conceptual	2-30 OBJ: 1
51.		he brain structure called the hippocampus. endorphins acetylcholine
	ANS: D DIF: 2 REF MSC: TYPE: Factual	2-30 OBJ: 1
52.		nvolved in the formation of sensations. endorphins.
	ANS: A DIF: 1 REF MSC: TYPE: Factual	2-30 OBJ: 1

53.	Muhammad Ali is suffering from Parkinson' brain is not producing enough	
	1 1	acetylcholine. dopamine.
	ANS: D DIF: 3 REF MSC: TYPE: Conceptual	: 2-30 OBJ: 1
54.	for what neurotransmitter?	no suffer from it may have more receptor sites
		acetylcholine serotonin
	ANS: B DIF: 2 REF MSC: TYPE: Factual	: 2-30 OBJ: 1
55.	individuals who are deficient in dopamine we	
		coordinated movement.smooth movement.
	ANS: B DIF: 3 REF MSC: TYPE: Conceptual	: 2-30 OBJ: 1
56.	Phenothiazines, a group of drugs used to trea neurotransmitter	-
	<u> •</u>	endorphins. noradrenaline.
	ANS: A DIF: 2 REF MSC: TYPE: Factual	: 2-30 OBJ: 1
57.	severe side-effect of this medication, if used a. Parkinson's-like symptoms.	t schizophrenia, block the action of dopamine. A over a long period of time, could be Alzheimer's disease. thought disorders.
	ANS: A DIF: 3 REF MSC: TYPE: Conceptual	: 2-30 OBJ: 1
58.	Dr. Kelly Earls, a neuropsychologist, was sit exhibiting uncontrollable movement. Dr. Ear in which of the following neurotransmitters?	ing next to an individual on a train who was is assumed that this individual had an imbalance
	a. acetylcholineb. norephinephrine	serotonin dopamine
	ANS: D DIF: 3 REF	: 2-30 OBJ: 1

59.	If there were a drug that be effect would most likely be	-	ake c	of norepinephi	rine, we	e would expect that the
	a. sleeplessness.			drowsiness.		
	b. too much sleep.		d.	psychomotor	retard	ation.
	ANS: A DIF: MSC: TYPE: Conceptual	2 RI	EF:	2-30&31	OBJ:	1
60.	In an emergency,a. GABA	is (are) very				nd body.
	b. endorphins			norepinephri serotonin	ne	
	ANS: C DIF: MSC: TYPE: Conceptual	3 RI	EF:	2-30&31	OBJ:	1
61.	Norepinephrine, which ele nervous syste		and (other vital sig	ns, is o	perating when the
	a. somaticb. somatosensory			parasympath sympathetic	etic	
	ANS: D DIF: KEY: WWW MSC:		EF:	2-31&32	OBJ:	1
62.	Cocaine and amphetamine a. GABA and endorphine b. norephinephrine and compared to the control of	S	c.	ction of which acetylcholine acetylcholine	e and e	ndorphins
	ANS: B DIF: MSC: TYPE: Applied	3 RI	EF:	2-31	OBJ:	1
63.	Deficiencies inand insomnia.	have been link	ked t	o anxiety, mo	od disc	orders, eating disorders,
	a. noradrenalineb. acetylcholine			serotonin dopamine		
	ANS: C DIF: MSC: TYPE: Factual		EF: TC	2-31	OBJ:	1
64.	Jeff is very aggressive and a. serotonin deficiency. b. serotonin abundance.	l exhibits alcohol	c.	and depression dopamine de none of these	ficienc	-
	ANS: A DIF: MSC: TYPE: Applied	2 RI	EF:	2-31	OBJ:	1
65.	Which of the following ne reactions?	eurotransmitters i	is be	lieved to be ir	volved	l in reducing anxiety
	a. dopamine b. serotonin			GABA norephinephi	rine	
	ANS: C DIF: MSC: TYPE: Factual	1 R1	EF:	2-31	OBJ:	1

66.	Which of the following sta.a. Tranquilizers and alcob. One class of anti-anxic. Deficiencies in GABAd. None of these	ohol may act or ety drugs man	n GAB y incre	A receptors a ase the sensit	nd thus	reduce anxiety.
	ANS: D DIF: MSC: TYPE: Factual	3	REF:	2-31	OBJ:	1
67.	Endorphins are endogenous. a. occur naturally in the b. do not occur naturally c. increase pain message d. decrease the functions	brain and the brain and the brain and the brain.	oloodst nd bloo	ream. odstream.		
	ANS: A DIF: MSC: TYPE: Conceptual	2	REF:	2-31	OBJ:	1
68.	Jack just finished a 26-mi elated due to the release of a. serotonin. b. dopamine.		c.	of the physica endorphins. acetylcholin		n he feels euphoric and
	ANS: C DIF: MSC: TYPE: Applied	2	REF:	2-31	OBJ:	1
69.	The neurotransmitter(s) lia. norephinephrine. b. endorphins.	nked to pleasu	c.		-	s (are)
	ANS: B DIF: MSC: TYPE: Factual	1	REF:	2-31	OBJ:	1
70.	Right after a car accident. a. norephinephrine b. endorphins	i	c.		et as a t	emporary pain killer.
	ANS: B DIF: MSC: TYPE: Applied	2	REF:	2-31	OBJ:	1
71.	Which of the following is a. They may produce the b. They may increase the c. They may increase out. all of these	e pleasurable " e functioning o	runner of the in	's high." mmune syster	n.	
	ANS: D DIF: MSC: TYPE: Conceptual	2	REF:	2-31	OBJ:	1

72.	. A nerve is				
	a. a soma.	c.	a cell body.		
	b. a bundle of axons.	d.	a neuron cell	•	
	ANS: B DIF: 1 RE MSC: TYPE: Factual	EF:	2-31	OBJ:	1
73.	. The brain and spinal cord make up the				
,	a. peripheral nervous system.	c.	autonomic ne	ervous	system.
	b. central nervous system.		sympathetic		•
	ANS: B DIF: 1 RE KEY: WWW MSC: TYPE: Factual	EF:	2-32	OBJ:	1
74.	Sensory and motor messages that allow youa. afferent and efferent nerves.b. peripheral nervous system.	c.	pick up your p autonomic ne both a and b		
	ANS: D DIF: 2 RE MSC: TYPE: Conceptual	EF:	2-32	OBJ:	1
75.	 a. sympathetic nervous system and the part b. somatic nervous system and the motor recommendation c. autonomic nervous system and the cent d. autonomic nervous system and the some 	rasy nerv ral r	mpathetic ner ous system. nervous system	vous s	ystem.
	ANS: D DIF: 1 RE MSC: TYPE: Factual	EF:	2-32	OBJ:	1
76.	 a. sympathetic nervous system and the part b. peripheral nervous system and the centr c. somatic nervous system and the motor r d. peripheral nervous system and the somatic 	rasy: ral n nerv	mpathetic ner ervous system ous system.	1.	ystem.
	ANS: A DIF: 1 RE MSC: TYPE: Factual	EF:	2-32	OBJ:	1
77.	 a. Transmitted messages about sight, sound b. Blushing over an embarrassing situation c. Dilated pupils and rapid heartbeat. d. The fear experienced when a rat rushes 	nd, s n.	mell, taste, an		_
	ANS: A DIF: 3 RE MSC: TYPE: Applied	EF:	2-32	OBJ:	1

78.	The nervous system transmits matactile information. a. sympathetic c	essages about sight, sound, smell, taste, and autonomic
	b. central d	somatic
	ANS: D DIF: 1 REF KEY: WWW MSC: TYPE: Factual	2-32 OBJ: 1
79.	 When a person is anxious or fearful, they mage. a. The sympathetic division of the ANS predib. The parasympathetic division of the ANS anxiety. c. The sympathetic division of ANS stimular d. The parasympathetic branch inhibits dige. 	lominates when we feel fear or anxiety. predominates when we feel fear or tes the digestive process.
	ANS: A DIF: 3 REF MSC: TYPE: Applied	2-32 OBJ: 1
80.	she knows that this condition is controlled by a. motor cortex.	g, she blushes. Being a student of psychology, the somatosensory cortex. motor nervous system.
	ANS: B DIF: 2 REF MSC: TYPE: Conceptual	2-32 OBJ: 1
81.	a. Parasympathetic branch c	the autonomic system was active during the run Hippocampus Aphasia
	ANS: B DIF: 2 REF MSC: TYPE: Conceptual	2-32 OBJ: 1
82.	A person highly trained in yoga and meditation blood pressure, that is, raising and lowering it these functions are controlled by the	<u> </u>
		motor nervous system. autonomic nervous system.
	,	·
	ANS: D DIF: 2 REF MSC: TYPE: Conceptual	2-32 OBJ: 1
83.	Pupil dilation and rapid heartbeat are the resunervous system?	It of activation of which branch of the autonomic
	• •	the somatosensory cortex the peripheral nervous system
	ANS: A DIF: 1 REF MSC: TYPE: Factual	2-32 OBJ: 1

84.	You and a friend are studying psychol- stirring underneath it. You lean over to nervous system kicks into gear in both a. the afferent nervous system b. the parasympathetic nervous system	investig you and c.	gate, and a rat l your friend? the sympathe	scurries across the floor	_
	ANS: C DIF: 2 MSC: TYPE: Applied	REF:	2-32	OBJ: 1	
85.	When you pick up a dime, a message is brain, and from the brain to the muscle process? a. spinal cord	es in you	r hand. Which	• •	
	b. peripheral nervous system		all of these		
	ANS: D DIF: 2 MSC: TYPE: Conceptual	REF:	2-32	OBJ: 1	
86.	A spinal reflex is a. an unlearned response to a stimulu b. a learned response to a stimulus th c. a voluntary response to a stimulus d. an acquired response to a stimulus	at possib that poss	oly involves or sibly involves	nly one neuron. s only two neurons.	
	ANS: A DIF: 2 MSC: TYPE: Factual	REF:	2-33	OBJ: 1	
87.	The brain and spinal cord contain non-	-myelina	ted neurons th	hat make up the	
	and myelinated neurons that make up		·	•	
	a. white matter; gray matterb. gray matter; white matter			r; brown matter er; white matter	
	ANS: B DIF: 1 MSC: TYPE: Factual	REF:	2-33	OBJ: 1	
88.	After a serious car accident, Dr. Murra response may indicate that he has injura. cerebrum. b. limbic system.	ries to hi c.			Lack of
	ANS: C DIF: 2 MSC: TYPE: Conceptual	REF:	2-33	OBJ: 1	
89.	Based on Dr. Octopus, a character in the interfaces for use in pera. brain-machine b. spinal cord-machine	rsons wi c.	-	l damage. chine	ıdying
	ANS: A DIF: 2 MSC: TYPE: Conceptual	REF:	2-33	OBJ: 1	

90.	You are about to take part in a sleep study might be used by the researcher? a. brain lesioning b. brain ablation	c.	ich of the foll autopsy EEG	lowing brain study techniques
	ANS: D DIF: 1 R MSC: TYPE: Applied	REF:	2-34	OBJ: 2
91.	This technique of brain imaging called measurements of radiation passing through integrated into a three-dimensional image a. video imaging procedure. b. MRI.	h the of the	brain at multi	<u> </u>
	ANS: D DIF: 2 R MSC: TYPE: Factual	REF:	2-35	OBJ: 2
92.	 An EEG a. creates an image of the area of the brain b. detects minute amounts of electrical acc. passes x-rays through the area of the brain d. All of these. 	ctivity	y.	a flashing light.
		REF: NOT:		OBJ: 2
93.	You go to a neurologist because of headact some images of your brain and that the progray beam will be passed through your head and realize that the doctor is suggesting at a. CAT scan. b. MRI.	ocedu d. Yo (n) c.	ire involves a	technique in which a narrow x-
	ANS: A DIF: 3 R MSC: TYPE: Applied	EF:	2-35	OBJ: 2
94.	generated image of brain activity by tracina. glucose metabolized in areas of the brab. radiation passing through areas of the c. shifts in blood flow in the brain. d. electrical activity on the surface of the	ng the ain. brain brain	e amount of . n.	
	ANS: A DIF: 2 R MSC: TYPE: Factual	EF:	2-33	OBJ: 2

95.	_	u receiv	e an injection	of a n ou are c.	nild radioactiv	e subs	itional tests. One procedure stance mixed with glucose r a
	ANS: A MSC: TYPE: Applie	DIF: 2	2	REF:	2-35	OBJ:	2
96.	In, the per cause part of the bra. MRI b. PET		-	c.	netic field and CAT CBF	is exp	osed to radio waves that
	ANS: A MSC: TYPE: Factua	DIF: 2	2	REF:	2-35	OBJ:	2
97.	While the PET asso a. multiple angles b. tracers.		-	c.	of glucose me subtle shifts electrical act	in bloc	sm, the MRI measures od flow.
	ANS: C MSC: TYPE: Factua	DIF: 2	2	REF:	2-35	OBJ:	2
98.	is a to see the brain at wo a. MRI b. Functional MRI		brain imaging t	c.	que that include PET CAT	es repea	ated scans to allow researchers
	ANS: B MSC: TYPE: Factua	DIF: 2	2	REF:	2-36	OBJ:	2
99.	PET scans and MR a. decision makin b. problem solving	g.	upported the t	c.	sensations.		ortex is involved in and problem solving.
	ANS: D MSC: TYPE: Factua	DIF: 2	2	REF:	2-36	OBJ:	2
100.	The structure in the a. medulla. b. pons.	hindbra	nin that regula	c.	art rate, blood thalamus. limbic system	_	ure and breathing is the
	ANS: A MSC: TYPE: Factua	DIF:	1	REF:	2-36	OBJ:	2
101.	loss of muscle tone a. hypothalamus		an result in a l	c.	cerebrum	inatior	n, such as stumbling and
	b. thalamus			d.	cerebellum		
	ANS: D KEY: WWW	DIF: Z	2 TYPE: Applied		2-36	OBJ:	2

102.	After her stroke Cathy was no longer likely her was damaged. a. thalamus			dance movements. More than
	b. cerebellum		medulla amygdala	
	ANS: B DIF: 2 MSC: TYPE: Applied	REF:	2-36	OBJ: 2
103.	Damage to the can preve a coma.	ent an ind	lividual from l	being aroused and possibly lead to
	a. thalamusb. reticular activation system		hypothalami septum	us
	ANS: B DIF: 2 MSC: TYPE: Applied	REF:	2-36&37	OBJ: 2
104.	The structure that serves as a relay sta information to appropriate brain sites	is the	C	sory stimulation and directs this
	a. pons.b. RAS.		thalamus. septum.	
	ANS: C DIF: 1 MSC: TYPE: Factual	REF:	2-37	OBJ: 2
105.	Tom is unable to sweat. It is possible a. thalamus.		as damage to hippocampu	
	b. hypothalamus.		RAS.	
	ANS: B DIF: 3 KEY: WWW MSC: TYPE: Con		2-37	OBJ: 2
106.	You and your research team are study exhibiting compulsive eating and drin the rats'	_		
	a. amygdala.b. septum.		pituitary gla hypothalam	
	ANS: D DIF: 3 MSC: TYPE: Conceptual	REF:	2-37	OBJ: 2
107.	While conducting research on electric found the <i>pleasure center</i> of the brain a. hippocampus. b. hypothalamus.		ere stimulatin	•
	ANS: B DIF: 2 MSC: TYPE: Factual	REF:	2-37	OBJ: 2

108.	If a person has a damaged hippocampus, va.a. Lack of response when reflexes are testb. Lack of motor coordination.c. An inability to sweat.d. The ability to recall old memories, but	sted.		C	
	ANS: D DIF: 2 R MSC: TYPE: Factual	REF:	2-37	OBJ:	2
109.	After a gunshot wound to the head, a patie old ones. You would expect that the wound a. cerebellum. b. cerebrum.	nd wa c.			memories but can recall
	ANS: C DIF: 2 R KEY: WWW MSC: TYPE: Concept		2-37	OBJ:	2
110.	The amygdala is implicated ina. sexual b. eating	c.	havior in mon aggressive courting	keys, o	cats, and other animals.
	ANS: C DIF: 2 R MSC: TYPE: Factual	REF:	2-37&38	OBJ:	2
111.	The amygdala is involved in all of the folla. aggression. b. fear.	c.	ng EXCEPT vigilance. balance.		
	ANS: D DIF: 2 R MSC: TYPE: Factual	REF:	2-37&38	OBJ:	2
112.	Only in humans does the cor other parts.	npos	e such a large	propo	rtion of the brain relative to
	a. limbic systemb. cerebrum		cerebellum medulla		
	ANS: B DIF: 2 R MSC: TYPE: Factual	REF:	2-38	OBJ:	2
113.	The "valleys" in the cerebral cortex are ca a. fissures. b. callosums.	c.	crevices.		
	ANS: A DIF: 1 R MSC: TYPE: Factual	REF:	2-38	OBJ:	2
114.	The is the structure that con a. cerebellum b. corpus callosum	c.	s the hemisphoterebrum thalamus	eres of	the cerebral cortex.
	ANS: B DIF: 1 R MSC: TYPE: Factual	REF:	2-38	OBJ:	2

	a. The cerebral cob. The cerebral coc. The cerebral cod. Areas of the ceactivity are call	ortex is ortex ha rebral c	the outer coats as two hemisple cortex that are	ing of the	the cerebrum.		
	ANS: A MSC: TYPE: Factu	DIF: al	2	REF:	2-38	OBJ:	2
116.		st finds	no anatomical	l problestigate c.	em in the pati	ent's e nage to oe.	fter a thorough examination yes. The doctor therefore his
	ANS: D MSC: TYPE: Appli	DIF: ed	2	REF:	2-38	OBJ:	2
117.	0 0			ssible			d. Soon after, he was ury to the
	b. frontal			d.	temporal		
	ANS: C KEY: WWW	DIF: MSC:	2 TYPE: Applie		2-38	OBJ:	2
118.	The visual area of	the cort	tex is located i	n the _	lo	obes.	
	a. temporalb. parietal				frontal occipital		
	ANS: D MSC: TYPE: Factu	DIF: al	1	REF:	2-38	OBJ:	2
119.	The auditory corter a. temporal b. parietal	x lies w	ithin the	c.	_ lobe. frontal occipital		
	ANS: A MSC: TYPE: Factu	DIF: al	1	REF:	2-39	OBJ:	2
120.	Andy was in a car he sustained damag a. temporal b. parietal			lobe.		ouble l	nearing. It's probable that
	ANS: A MSC: TYPE: Appli	DIF: ed	2	REF:	2-39	OBJ:	2

115. Which of the following statements is *NOT true* about the cerebral cortex?

121.	If a neurosurgeon stimular is likely he stimulated the	-	rea of	your brain an	ıd you	felt heat in your left leg, it
	a. motor cortex.b. thalamus.			somatosenso hypothalam	-	tex.
	ANS: C DIF: MSC: TYPE: Applied	2	REF:	2-39	OBJ:	2
122.	The somatosensory cortex a. frontal b. temporal	is located in th	c.	parietal occipital	es.	
	ANS: C DIF: MSC: TYPE: Factual	1	REF:	2-39	OBJ:	2
123.	The motor cortex is locate a. frontal b. parietal	ed in the	c.	lobes. temporal occipital		
	ANS: A DIF: MSC: TYPE: Factual	1	REF:	2-39	OBJ:	2
124.	If a neurosurgeon stimular move a finger. a. somatosensory cortex b. motor cortex	ted a specific ar	c.	yourvisual cortex	X	you might raise an arm or
	ANS: B DIF: MSC: TYPE: Applied	3	REF:	2-39	OBJ:	2
125.	Association areas are thosa. sensation. b. motor action.	e areas of the c	c.		ought, a	and language.
	ANS: C DIF: MSC: TYPE: Factual	2	REF:	2-39	OBJ:	2
126.	Damage to either the Broca. aphasia b. amnesia	ca's area or We	c.		ely to c	ause
	ANS: A DIF: MSC: TYPE: Factual	2	REF:	2-39	OBJ:	2
127.	Wernicke's aphasia cause a. impairment of one's a to express their own th b. one to speak slowly ar c. serious impairment in d. an inability to segmen	bility to compronoughts. In a laboriously in reading.	n sim	ple thoughts.	o think	of the proper words
	ANS: A DIF: MSC: TYPE: Applied		REF: NOT:	2-40 BTC	OBJ:	2

128.	If a patient has damage to Broca's area, to a. comprehend language but have difficult b. do not comprehend language and have c. have both impaired comprehension and d. none of these	ulty wit	th speech. ulty with spe	ech.	
	ANS: A DIF: 2 MSC: TYPE: Conceptual	REF: 2	2-40	OBJ: 2	
129.	Research does suggest that in right-hands involved in a. intellectual undertakings that require b. recognition of faces. c. discrimination of colors. d. creative mathematical reasoning.			ft hemis	sphere is relatively more
	ANS: A DIF: 2 MSC: TYPE: Conceptual	REF: 2	2-40	OBJ: 2	
130.	The left hemisphere of the brain is more a. logical analysis and problem solving. b. visual-spatial functions.	с. е	-	ponses.	
	ANS: A DIF: 2 MSC: TYPE: Conceptual	REF: 2	2-40	OBJ: 2	
131.	 Which of the following is usually <i>NOT</i> to a. They are more likely to be female. b. They are more likely to experience la c. They are more likely to suffer from n d. They are more likely to be creatively 	inguage nigraine	problems.	-	gies.
	ANS: A DIF: 2 MSC: TYPE: Factual	REF: 2	2-40	OBJ: 2	
132.	well. a. 50% b. 10%	c. 4	40% 100%	OBJ: 2	
133.	If an individual has surgery in order to coa. They will automatically become right b. They will have their corpus callosum c. They will have the inability to retrieved. They will automatically become left-	t handed severed e visual	d. d. I and auditory	_	
	ANS: B DIF: 3 MSC: TYPE: Applied	REF: 2	2-41	OBJ: 2	

	a. cut both the right andb. sever the corpus callogc. cut the frontal lobes ind. cut an incision between	sum, which joi n half.	ins the	right and left	hemisį	pheres.
	ANS: B DIF: MSC: TYPE: Factual	2	REF:	2-41	OBJ:	2
135.	With epileptic patients, that in a rid the patient of brains be confine the seizures to communicate seizure activated. The many confine the seizure activates and the seizure activates activates and the seizure activates and the seizure activates activates and the seizure activates and the seizure activates activates and the seizure activates and the seizure activates and the seizure activates activates and the seizure activates activates and the seizure activates and the seizure activates activates and the seizure activates and the seizure activates and the seizure activates activates activates and the seizure activates activates activates activates and the seizure activates activates activates and the seizure activates acti	seizures. one hemisphe	ere.		allosur	n is to
	ANS: B DIF: MSC: TYPE: Factual	3	REF:	2-41	OBJ:	2
136.	 When a patient undergoes a. Their behavior change b. If their eyes are closed when they hold it in one har c. Most of the time the toplaying the piano or set d. None of these 	es drastically. I, they can veri Id, but not whe wo hemisphere	bally of en they es will	lescribe an objoint the work together	ject suc other l	ch as a small toy
	ANS: B DIF: MSC: TYPE: Conceptual	3	REF:	2-41	OBJ:	2
137.	Endocrine glands secrete a. hormones b. endorphins	tl	c.	ulates various neurotransm saliva	-	functions.
	ANS: A DIF: MSC: TYPE: Factual	1	REF:	2-42	OBJ:	3
138.	The gland that is often refa. hypothalamus. b. adrenal gland.	erred to as the	c.	er gland" is the thyroid gland pituitary gland	d.	
	ANS: D DIF: MSC: TYPE: Factual	1	REF:	2-42	OBJ:	3
139.	The gland that produces g a. adrenal gland. b. hypothalamus.	rowth hormon	c.	e pituitary gla pancreas.	nd.	
	ANS: C DIF: MSC: TYPE: Factual	1 NOT:	REF: BTC	2-42	OBJ:	3

134. In split-brain patients, surgeons

140.	a. production of ob. onset of labor.				production of		
	ANS: D MSC: TYPE: Factua	DIF: al	2	REF:	2-42	OBJ:	3
141.	Oxytocin stimulate a. onset of labor. b. production of n				production of	-	n.
	ANS: A MSC: TYPE: Factua	DIF: al	2	REF:	2-42	OBJ:	3
142.	Which of the followa. Only one type of b. The pituitary gloc. The hypothalard. Growth, matern	of horn land lie nus doe	none is secrete as above the hy as not regulate	d. pothal much	amus. of the pituitar	y activ	vity.
	ANS: D MSC: TYPE: Conce	DIF: eptual	2	REF:	2-42	OBJ:	3
143.	Bobby is only 10 y	ears ol	d, and is nearly	y 6 fee	t tall. Tests re	veal a	problem with his
	a. adrenal glandb. pancreas				thyroid gland pituitary gland		
	ANS: D MSC: TYPE: Applie	DIF:	3	REF:	2-42	OBJ:	3
144.	Which of the followa. As an anti-diumb. In humans it is c. In non-human id. Both a & c are	etic, it involvemamma	inhibits urine p ed in monogan	produc ny and	tion when boo attachment b	dily flu etween	ids are low. n men and women.
	ANS: D MSC: TYPE: Factus	DIF: al	3	REF:	2-42	OBJ:	3
145.	The regula. hypothalamus b. hippocampus	ates the	e pituitary glar	c.	hormone cer		
	ANS: A MSC: TYPE: Facture	DIF: al	1	REF:	2-42	OBJ:	3
146.	Bonny is 16 years of by the	old, ye	t is only 4 feet	tall. T	ests reveal det	ficienc	ies in hormones produced
	a. adrenal gland.b. hippocampus.				pituitary glanthyroid glant		
	ANS: C MSC: TYPE: Applie	DIF:	2	REF:	2-42	OBJ:	3

147.	The pineal gland secretes following EXCEPT a. sleep regulation. b. aging.	the hormone i	c.	nin, which has jet-lag. growth.	s been	connected with all of the
	ANS: D DIF: MSC: TYPE: Factual	2	REF:	2-42	OBJ:	3
148.	If a person is having trouba. prolactin b. corticosteroids	ole sleeping, th	c.	ght take the fo melatonin thyroxin	llowin	g hormone.
	ANS: C DIF: MSC: TYPE: Applied	2	REF:	2-42	OBJ:	3
149.	Some people are overweight. a. hyperthyroidism. b. hypothyroidism.	ght because of	c.	hyperglycen hypoglycem		
	ANS: B DIF: MSC: TYPE: Applied	3	REF:	2-42	OBJ:	3
150.	Low secretions of thyroxia. anorexia. b. hypoglycemia.	n can result in	c.	obesity.	lism.	
	ANS: C DIF: MSC: TYPE: Applied	2	REF:	2-42	OBJ:	3
151.	Bobby's growth is stunted a. too much thyroxin. b. hyperthyroidism.	d and he exhib	c.	ntal retardation cretinism. none of thes		e than likely he has
	ANS: C DIF: MSC: TYPE: Applied	1	REF:	2-42	OBJ:	3
152.	Cretinism in children resu a. hyperthyroidism. b. hyperglycemia.	llts from	c. d.	a deficiency too much th	•	
	ANS: C DIF: MSC: TYPE: Applied	2	REF:	2-42	OBJ:	3
153.	The glands that are locate a. adrenal glands. b. thyroid glands.	d above the ki	c.	are the pituitary gla sebaceous gl		
	ANS: A DIF: MSC: TYPE: Factual	1	REF:	2-43	OBJ:	3

154.	The adrenal cortex secretesa. corticosteroids.b. tyrosine.		thyroxin.			
	ANS: A DIF: 2 MSC: TYPE: Factual	REF:	2-43	OBJ:	3	
155.	Testosterone is produced by a. testes, ovaries, and adrenal gb. testes and ovaries.		testes only.			
	ANS: A DIF: 3 MSC: TYPE: Factual	REF:	2-43	OBJ:	3	
156.	sex characteristics a characteristics are not.	re directly invo	olved in reprod	duction	but	sex
	a. Secondary; primaryb. Primary; secondary		Primary; ext Secondary; i		l	
	ANS: B DIF: 2 MSC: TYPE: Factual	REF:	2-43	OBJ:	3	
157.	Estrogen is produced by a. the testes and ovaries. b. only the testes.		only the ovar			
	ANS: A DIF: 2 MSC: TYPE: Factual NOT		2-43	OBJ:	3	
158.	promotes the grow pregnancy.	th of female re	productive org	gans an	nd helps maintain	n
	a. Estrogenb. Oxytocin		Progesterone Luteinizing l		ne	
	ANS: C DIF: 1 MSC: TYPE: Factual	REF:	2-43	OBJ:	3	
159.	You are considering taking anal			•		
	a. increase in muscle massb. liver damage		decreased re- an increase is supply			
	ANS: C DIF: 2 MSC: TYPE: Applied	REF:	2-43	OBJ:	3	
160.	The evolutionary concept of adapt to the environment are mo a. struggle for existence b. mutation	ore likely to sur c.		oduce.	s that are better	able to
	ANS: D DIF: 1 MSC: TYPE: Factual	REF:	2-44	OBJ:	4	

161.	are small genetic traits.	variations that lead	l to differences	among individuals in physical
	a. Random codesb. Systematic changes		Mutations Decoders	
	ANS: C DIF: 1 MSC: TYPE: Factual	1 REF:	2-44	OBJ: 4
162.	Which of the following is Na. Species that are adaptiveb. Species that do not adaptivec. Survivors do not transmed. All of these.	e manage to survivo ot dwindle in numbo	e. ers and may be	come extinct.
	ANS: C DIF: 2 MSC: TYPE: Conceptual	REF:	2-44	OBJ: 4
163.	 Evolutionary Psychology a. studies ways in which a processes and behavior. b. suggests that social behavior to the next. c. suggest that traits such a reproduce. d. suggests all of these. 	avior evolves and c	an be transmitt	ed from one generation
	ANS: D DIF: 3 MSC: TYPE: Conceptual	REF:	2-44&45	OBJ: 4
164.	 Which of the following stat a. Social behavior evolves b. Behavior patterns are te species. c. Instinctive behavior can d. Psychologists have four 	and is transmitted rmed species-speci- be modified by lea	from generatio fic because the urning.	y evolve within certain
	ANS: D DIF: 2 MSC: TYPE: Conceptual	REF: NOT:		OBJ: 4
165.	differences in oura. environment b. heredity	·	experience	n humans is because of
	ANS: B DIF: 2 MSC: TYPE: Conceptual	REF:	2-45	OBJ: 4

166.	66. Behavior geneticists are attempting to sort out the relative importance of heredity and					
	a. environmental influences b. nature	c. nutri d. beha				
	ANS: A DIF: 2 MSC: TYPE: Conceptual	REF: 2-45	OBJ: 4			
167.	Dr. Barnes is researching the bra alcoholism in their families. She a. neurosurgeon. b. substance abuse counselor. ANS: D DIF: 2	is probably a c. brair	surgeon. vioral geneticist.	nd have a history of		
	MSC: TYPE: Applied	NOT: BTC	ODJ. 4			
168.	a. Zygotes b. Alleles	c. Gene	<u> </u>			
	ANS: C DIF: 1 MSC: TYPE: Factual	REF: 2-46	OBJ: 4			
169.	We inherit chromos a. 26; 26 b. 46; 46	omes from our moth c. 23; 2 d. 43; 4	23	from our father.		
	ANS: C DIF: 1 MSC: TYPE: Factual	REF: 2-47	OBJ: 4			
170.	Each cell in the body contains a. 44; 22 b. 46; 23	chromosomes c. 42; 2 d. 45; 2	21	pairs.		
	ANS: B DIF: 1 MSC: TYPE: Factual	REF: 2-46	OBJ: 4			
171.	Which is <i>NOT</i> true about chroma. They are small complex moles. They contain 10 to 20 genes. c. If we receive an x chromosond. The 23 rd pair consists of the state of the st	ne from our father,		female.		
	ANS: B DIF: 2 MSC: TYPE: Conceptual	REF: 2-468	247 OBJ: 4			
172.	Orlando's outer appearance is his _a. genotype; phenotype b. phenotype; genotype	c. geno	based on his genetic type; sex-type type; genotype	c make-up or		
	ANS: B DIF: 2 MSC: TYPE: Conceptual	REF: 2-47	OBJ: 4			

173.	An extra chromosome on the 21 st pair wo				
	a. Monozygotic twins		DZ twins	of the	andinany to hannan
	b. Down syndrome		_		ordinary to happen
	ANS: B DIF: 2 MSC: TYPE: Factual	REF:	2-47	OBJ:	4
174.	Most individuals with Down syndrome ha. one less chromosome on the 21st pair	r. c.			-
	b. one extra chromosome on the 21st pair.	d.	one extra chr pair.	omos	ome on the 23rd
	ANS: B DIF: 2 MSC: TYPE: Factual	REF:	2-47	OBJ:	4
175.	Dizygotic twins a. develop when two ova are fertilized. b. share 100% of their genes. c. are referred to as identical twins.				
	d. demonstrate differences that are sole	ly the	result of nurtu	ıre.	
	ANS: A DIF: 2 KEY: WWW MSC: TYPE: Applied	REF:	2-47	OBJ:	4
176.	Kinship studies a. compare traits and behavior patterns in	c.	are run with ty	wins ar	nd adopted
	people who are biologically related.b. compare the prescence of traits and behavior patterns of those who are not biologically related.	d.	individuals. all of these		
	ANS: D DIF: 2 MSC: TYPE: Conceptual	REF:	2-47&48	OBJ:	4
177.	Jerry and his nephew exhibit the same m does not demonstrate this skill. Why is that a. Parents and children only share 50% b. Aunts and uncles and their nieces and overlap in genetic endowment. c. Both a and b.	his pos overla	ssible from a g ap in genetic e	genetic ndowi	standpoint? ment.
	d. None of these are applicable.			0.0.1	
	ANS: C DIF: 3 MSC: TYPE: Conceptual	REF:	2-47	OBJ:	4
178.	Certain behaviors may have a genetic co. a. they are shared by close blood relativ b. they are not shared by close blood re. c. only parents share the trait. d. none of these.	es.			
	ANS: A DIF: 2 MSC: TYPE: Conceptual	REF:	2-47	OBJ:	4

179.	When a zygote divides into two cea. the pregnancy will end.b. monozygotic twins will be born	c. dizygotic tw	ins will be born. drome baby will be born.
	ANS: B DIF: 2 MSC: TYPE: Factual	REF: 2-47	OBJ: 4
180.	When two ova are fertilized, they of a. dizygotic twins. b. monozygotic twins.	develop into c. identical twi d. zygotic twin	
	ANS: A DIF: 1 MSC: TYPE: Factual NOT:	REF: 2-47 BTC	OBJ: 4
181.	You and your team of behavioral geonduct your research would be to a. MZ twins reared together whose b. MZ twins reared apart whose b. DZ twins reared apart whose b. d. DZ twins reared together whose	study se biological mother is sch biological mother is schize iological mother is schize	nizophrenic. ophrenic. ophrenic.
	ANS: B DIF: 3 MSC: TYPE: Conceptual	REF: 2-48	OBJ: 4
182.	Kinship studies show us that hered money and other social factors. What a. People's levels of cheerfulness b. Identical twins, separated at bin natural parents in some traits. c. There is very little evidence for d. None of these.	hat else have these studies s or grumpiness are not co rth, and raised by other pe r a genetic role in the appo	s shown us? nsistent. cople, are similar to their earance of some traits.
	ANS: B DIF: 3 MSC: TYPE: Applied	REF: 2-48	OBJ: 4
183.	Researchers who study twins in ad a. determine evidence for a genet b. sort out the effects of nature vs c. rule out environmental influence d. all of these. ANS: D DIF: 2 MSC: TYPE: Conceptual	cic role in the appearance of s. nurture.	of a trait. OBJ: 4
COM	PLETION		
1.	extend like roots fr thousands of adjoining neurons.	rom the cell body to receive	ve incoming messages from
	ANS: Dendrites	OBJ: 1	MCC, TVDE, Factural
	DIF: 2 REF: 2-27	ODJ. 1	MSC: TYPE: Factual

2.	Fluid	on the inside	of the 1 _·	neuron is nega	itively	charged relat	ive to the outside, when in a
	ANS:	resting state					
	DIF:	2	REF:	2-28	OBJ:	1	MSC: TYPE: Applied
3.		ot be triggered		e phase follow	ving fi	ring during w	hich a neuron's action potential
	ANS:	refractory pe	riod				
	DIF:	2	REF:	2-29	OBJ:	1	MSC: TYPE: Factual
4.		ages travel fro		rons to other r	neurons	s, muscles, or	glands via chemical messengers
	ANS:	neurotransm	itters				
	DIF:	1	REF:	2-29	OBJ:	1	MSC: TYPE: Factual
5.		rocess called nal of the send			d neur	otransmitters	are reabsorbed by the axon
	ANS:	reuptake					
	DIF:	2	REF:	2-30	OBJ:	1	MSC: TYPE: Factual
6.	Dopa	mine deficien	cies are	e linked to			disease.
	ANS:	Parkinson's					
	DIF:	1	REF:	2-30	OBJ:	1	MSC: TYPE: Factual
7.		wo main divis ne			l nervo	ous system ar	e the nervous system
	ANS:	somatic; auto	onomic	:			
	DIF:	2	REF:	2-32	OBJ:	1	MSC: TYPE: Factual
8.		est is being givese or a tracer,		-	•		dioactive substance mixed with
	ANS:	PET scan					
	DIF:	2	REF:	2-35	OBJ:	2	MSC: TYPE: Applied

9.	with an MRI, the person is exposed to a powerful magnetic field and that cause parts of the brain to emit signals.							
	ANS:	radio waves						
	DIF:	2	REF:	2-35	OBJ:	2	MSC:	TYPE: Factual
10.		nation about		-	brain t	hat lies forwa	rd of th	ne medulla and transmits
	ANS:	pons						
	DIF:	2	REF:	2-36	OBJ:	2	MSC:	TYPE: Factual
11.	The v	isual cortex i	s in the		·			
	ANS:	occipital lob	e					
	DIF:	1	REF:	2-38	OBJ:	2	MSC:	TYPE: Factual
12.	Lang	age areas of	the cor	tex usually lie	in the	hemis	sphere.	
	ANS:	left						
	DIF:	1	REF:	2-39	OBJ:	2	MSC:	TYPE: Factual
13.	The e	ndocrine syst	em con	sists of		tha	at secre	te hormones.
	ANS:	ductless glan	nds					
	DIF:	2	REF:	2-42	OBJ:	3	MSC:	TYPE: Factual
14.	The a	drenal medul	la secre	tes epinephrin	e and		·	
	ANS:	norepinephr	ine					
	DIF:	1	REF:	2-43	OBJ:	3	MSC:	TYPE: Factual
15.			and na	tural selection	are ke	ey concepts in	evolut	ionary psychology.
	ANS:	Adaptation						
	DIF:	1	REF:	2-44	OBJ:	3	MSC:	TYPE: Factual
16.	A typ	ical pattern o	f behav	ior that is trig	gered i	n a specific si	tuation	is a(n)
	ANS:	instinct						
	DIF:	1	REF:	2-45	OBJ:	3	MSC:	TYPE: Factual

17.	Gene	s are segments	s of chi	romosomes, w	hich c	onsist of mole	cules o	of
	ANS:	DNA						
	DIF:	1	REF:	2-46	OBJ:	4	MSC:	TYPE: Factual
18.		3rd pair of ch				d	etermir	nes whether you will
	ANS:	sex chromos	omes					
	DIF:	2	REF:	2-47	OBJ:	4	MSC:	TYPE: Factual
19.		es of the distri		of traits or be	havior	patterns amo	ng relat	ted people are known as
	ANS:	kinship						
	DIF:	1	REF:	2-47	OBJ:	4	MSC:	TYPE: Factual
20.		ertilized egg c	ell tha	t carries genet	ic mes	sages from bo	th pare	nts is called a(n)
	ANS:	zygote						
	DIF:	1	REF:	2-47	OBJ:	4	MSC:	TYPE: Factual
TRUI	E/FALS	SE						
1.	Dopa	mine is a neur	otrans	mitter that is i	nvolve	d in voluntary	movei	ments.
	ANS: MSC:	T TYPE: Factua	DIF: al	2	REF:	2-30	OBJ:	1
2.	Stimu	ılants like coc	aine an	nd amphetamii	nes inc	rease the relea	ase of n	orephinephrine.
	ANS: MSC:	T TYPE: Factua	DIF: al	1	REF:	2-31	OBJ:	1
3.	The s	ympathetic ne	ervous	system is prin	narily c	calming.		
	ANS: MSC:	F TYPE: Conce	DIF:	2	REF:	2-32	OBJ:	1
4.	The c	entral nervous	s systei	m consists of t	the spin	nal cord only.		
	ANS: MSC:	F TYPE: Factua	DIF:	1	REF:	2-32	OBJ:	1

	5.	Reflexes are inborn behavior patterns that help individuals adapt to the environment.
		ANS: T DIF: 1 REF: 2-33 OBJ: 1 MSC: TYPE: Factual
	6.	The left side of the brain controls the right side of the body.
		ANS: T DIF: 1 REF: 2-34 OBJ: 2 MSC: TYPE: Factual
	7.	The reticular activation system (RAS) can become selective and learn to filter out certain sounds and be more sensitive to other sounds.
		ANS: T DIF: 2 REF: 2-36&37 OBJ: 2 MSC: TYPE: Conceptual
	8.	A large majority of humans are truly left-brained or right-brained.
		ANS: F DIF: 1 REF: 2-40 OBJ: 2 MSC: TYPE: Factual
	9.	Charles Darwin's book that made the case for the theory of evolution was titled <i>The Descen of Man</i> .
		ANS: T DIF: 1 REF: 2-44 OBJ: 4 MSC: TYPE: Factual
1	0.	If a psychological trait is thought to be polygenic, it is influenced by only one gene.
		ANS: F DIF: 1 REF: 2-46 OBJ: 4 MSC: TYPE: Conceptual

ESSAY

1. How do neurons communicate? Describe how a neural impulse travels from a sending neuron to a receiving neuron. In your description, be sure to include the parts of a neuron and what happens at the synapse.

ANS: Essay should include:

Neural impulse: Dendrites – receive messages from other neurons >Cell body -- contains nucleus of the cell >Axon -- (myelin sheath insulates, speeding transmission) sends message from cell body >Terminal button of axon >Synapse >Receiving neuron. Synapse: gap between sending neuron and receiving neuron. As impulse reaches axon terminal of sending neuron, neurotransmitters (chemical messengers) are released and travel across synapse; they fit into specific receptor sites on receiving neuron – completing the transmission.

2. Discuss two neurological/psychological disorders that have been linked to neurotransmitters. For each disorder a) Describe the symptoms. b) Discuss what researchers have learned about the role of neurotransmitters in the disorder.

ANS: Essay should include:

Two of the following:

Alzheimer's disease: a) formation of new memories is impaired. b) ACh is abundant in hippocampus – a structure involved in the formation of new memories. ACh deficiency is connected to Alzheimer's. Evidence found in memory loss of maze learning rats.

Parkinson's disease: a) progressive loss of muscle control; muscle tremors, jerky uncoordinated movements. b) Dopamine deficiency is connected to Parkinson's. It acts on the brain affecting voluntary movements.

Schizophrenia: a) confusion and false perceptions. b) Schizophrenics may have more receptors for dopamine in brain areas associated with emotional responding, resulting in overuse of dopamine. Treatment inhibits these receptors.

3. a) Describe the functions of the sympathetic and parasympathetic divisions of the autonomic nervous system. b) Provide a real-life example that demonstrates the effects of these two systems in humans.

ANS: Essay should include:

a) The two divisions of the autonomic nervous system have opposing effects. Sympathetic: involved in flight or fight response; increase in heart rate & breathing, increasing glucose, inhibits digestion and salivation. Parasympathetic: calming responses during relaxation; slows heart rate & breathing, stimulated digestion and salivation. When stressed, anxious, or fearful, eating is difficult. b) Any example that involves an arousing or stress-inducing situation that is complemented by a calming, restful situation and includes some of the effects described in (a).

4. Compare and contrast three brain-imaging techniques. Be sure to include what each technique can tell us about a person's brain.

ANS: Essay should include:

Compare three of the following: EEG – records electrical activity in the brain (brain waves); can detect certain brain waves associated with sleep, relaxation, or neurological problems. CT scan – x-rays of the brain; can reveal deformities, blood clots, tumors, other problems. PET scan – tracing metabolized glucose in the brain by measuring positively charged particles; shows areas of the brain that are most active during different tasks. MRI – person lies in magnetic field and is exposed to radio waves; measures signals from the brain; allows for repeated observations of changes in blood flow while patient is involved in different tasks. fMRI – observe brain while it works with repeated scans of the brain. Contrast: could include differences in what is measured in each scan (i.e. CT – x-rays, PET – glucose).

5. a) Discuss why psychologists are interested in studying identical twins that have been raised in different environments. b) What is the main conclusion of these studies?

ANS: Essay should include:

a) Identical twins have almost identical genetics. Studying identical twins reared in different environments can provide a clearer picture of the contribution of genetics. Identical twins in the same family also share similar environments – making it difficult to evaluate the relative contribution of genetics and environment. b) Results of the Minnesota study of identical twins reared apart show that that they are about as similar as identical twins living together on measures of: intelligence, personality, temperament, interests, and social attitudes. Therefore these traits are likely to be genetically influenced.