# TEST BANK Eighth Edition Understanding PSYCHOLOGY Charles G. Morris Albert A. Maisto

# **Chapter 2: The Biological Basis of Behavior**

## **Multiple-Choice Questions**

### Introduction

1.	The human brain has, on average, c a. 100 million c.		43 F, d	
	b. 1 billion d.	100 billion	New	
2.	The brain is the control center for e		43	
		peripheral	F, a	
	b. secondary d.	tertiary	Old	
3.	When young children have half their brain i	removed,	43	
	a. it ultimately leads to their death		F, c	
	b. it leads to permanent, severe disabilitie		Rev	
	c. they retain most of their normal abilitie			
	d. the missing half is eventually regenera	ted		
4.	In regards to the brain, the term "plasticity"		43	
		level of complexity	C, d	
	b. easily broken or "cracked" d.	ability to adapt to new conditions	Old	
5.	The field of psychobiology explores the way		43 C, a	
	a. biological processes affect our behavior			
	b. our mental state affects our physical he		Old	
	c. behavioral patterns affect biological de			
	d. evolution has shaped our instincts, driv	es, urges, and needs		
6.	Psychobiology overlaps with a much larger disciplinary field called, which 43			
	specifically focuses on the study of the brain		C, d	
		neuroimmunology	Old	
	b. behavioral genetics d.	neuroscience		
Neur	ons: The Messengers			
7.	The smallest unit in the nervous system is c	alled the	44	
***	a. dendrite c.	axon	F, b	
	b. neuron d.	nerve	Old	
	4 yr.: 88% r = .10; 2 yr.: 86% r = .28			
8.	There are approximately neurons in		44	
	a. 100 thousand c.	100 billion	F, c	
	b. 100 million d.	100 trillion	Old	
9.	The smallest part of the nervous system is c	alled a	44	
***	a. lobe c.	nerve	F, d	
	b. gland d.	neuron	Old	

10.	The cell which underlies the activity of			44		
	<ul><li>a. glial cell</li><li>b. epidermal cell</li></ul>	c.	neuron T-cell	F, c Old		
	b. epidermai cen	u.	1-cen	Olu		
	4 yr.: 96% r = .11					
11.			cleus, the largest amount of mass in the	44 C, d		
***	_	cell, and is where metabolism takes place, is the				
	a. axon		cell membrane	Old		
	b. dendrite	d.	cell body			
12. ***	The short fibers which extend from thother neurons are	e neu	iron, allowing it to receive messages from	44 C, b		
	a. axons	c.	nerve bundles	Old		
	b. dendrites	d.				
10	TT 6 6.1			4.4		
13. ***	The function of the neuron's dendrite			44		
***	a. conduct electrical impulses towar		er neurons	C, c Old		
	<ul><li>b. regulate the neuron's life processe</li><li>c. receive messages from neighboris</li></ul>		urone	Olu		
	d. insulate against leakage of electri					
	a. Institute against realtage of electric		nparises			
14.	The part of the neuron that carries out	going	g messages either to another neuron or	44		
***	to a muscle or gland is the			C, b		
	a. myelin sheath	c.		Old		
	b. axon	d.	cell body			
15.	The function of the neuron's axon is to					
***	a. conduct electrical impulses toward other neurons			44 C, a		
	b. regulate the neuron's life processes					
	c. receive messages from neighboring neurons					
	d. insulate against leakage of electrical impulses					
16.	Axons in the spinal cord can reach a length of up to feet.			44		
	a. two	c.		F, b		
	b. three	d.	five	Old		
17	Eash names has a second			4.4		
17.	Each neuron has axon(s).	C	four	44 F, a		
	<ul><li>a. one</li><li>b. two</li></ul>	c.	eight	r, a Old		
	b. two	u.	eight	Olu		
18.	Neurons typically have			44		
	a. one axon and one dendrite	c.	many axons and one dendrite	F, b		
	b. one axon and many dendrites	d.	many axons and many dendrites	Old		
19.	A group of axons bundled together is	calle	d a	44		
1).	a. synaptic vesicle	canc.		C, c		
	b. primary cluster		myelinated pathway	Old		
	r J		, r	2.4		
20.	A group of axons bundled together is	calle	d a	44		
	a. synaptic vesicle		tract	C, c		
	b. primary cluster	d.	myelinated pathway	Old		

21.	A nerve is really a(n)			44	
***	a. group of dendrites bundled to	gether		C, d	
	b. afferent neuron			Old	
	c. cell nucleus				
	d. group of axons bundled togeth	her			
	4 yr.: 89% r = .27				
22.	A nerve is a group of bund		_	44	
	a. axons	c.		C, a	
	b. dendrites	d.	glial cells	Old	
23.	A nerve is composed of			44	
***	a. a neuron and its synapses	c.		C, d	
	b. a bundle of synapses	d.	a bundle of axons	Old	
24.	Within a neuron, information always	ays flows	from	44	
***	a. dendrite to cell body to axon			F, a	
	b. cell body to axon to dendrite			Old	
	c. cell body to dendrite to axon				
	d. axon to cell body to dendrite				
	4 yr.: 69% r = .28 4 yr.: 76% r	= .29			
25.	The white, fatty covering that surr	ounds so	me axons is	44	
	a. the cell membrane	c.	the synaptic cleft	C, d	
	b. glial tissue	d.	the myelin sheath	Old	
26.	The primary purpose of the myelin sheath is to				
***	a. provide a place for neural respiration and cell metabolism to occur				
	b. provide a soft covering to hold axons in place				
	c. insulate the neuron so it can transmit information more efficiently				
	d. receive messages from outside the neuron and carry them to the cell nucleus				
27				4.4	
27.	The term "white matter" refers to		myselinoted evens	44 C. a	
	a. glial cells	c. d.	•	C, c Old	
	b. unmyelinated axons	u.	interneurons	Old	
28.	The term "gray matter" refers to _			44	
	a. glial cells	c.	myelinated axons	C, b	
	b. unmyelinated axons	d.	interneurons	Old	
29.	Terminal buttons are located	•		44	
	a. in the cell body	c.	in the nodes of the myelin sheath	F, d	
	b. at the end of the dendrite	d.	at the end of the axon	New	
30.	Terminal buttons release chemical	s called _	<del>.</del>	44.	
	a. neurotransmitters	c.	hormones	F, a	
	b. antigens	d.	antibodies	d	
31.	The myelin sheath of neur	al messag	ges.	45	
	a. blocks the flow	c.	-	F, d	
	b. lessens the speed	d.	increases the speed	Old	

32.	Neurons that collect messages from sense cord or the brain are called	organs and carry those messages to the spinal	45 C, b		
		. interneurons	Old		
	•	. motor neurons			
33.	Neurons that collect messages from sense	organs and carry those messages to the spinal	45		
	cord or the brain are called neuron	ns.	C, b		
	a. primary c.	. association	Old		
	b. afferent d	. efferent			
34.	Neurons that carry messages from the spin are called	nal cord or the brain to the muscles and glands	45 C, d		
		. interneurons	Old		
	b. sensory neurons d	. motor neurons			
35.	Neurons that carry messages from the spin are called neurons.	nal cord or the brain to the muscles and glands	45 C, d		
	a. primary c	. association	Old		
		. efferent			
36.	Neurons that carry messages from one neu	uron to another are called	45		
	a. primary neurons c	. interneurons	C, c		
	b. sensory neurons d	. motor neurons	Old		
37.	Neurons that carry messages from one neuron to another are called neurons.				
	a. primary c. associ	iation	C, c		
	b. afferent d. effere	ent	Old		
38.	Cells that form the myelin sheath are called		45		
	a. interactive neurons c.	. glial cells	C, c		
	b. adipose tissues d	. epidermal cells	Old		
39.	You are a cell in the human nervous syste		45 A, b		
	support for neurons, hold them together, and help remove waste products and				
	other substances which could otherwise ha		Old		
		dipose			
	b. glial d. ly	ymph			
40.	Recent evidence suggests that glial cells n	nay play an important role in	45		
	a. learning and memory c		F, a		
	b. endocrine functioning d	. maturation and aging	Old		
The	Neural Impulse				
41.	The language used by neurons to commun	nicate	46		
	a. is not yet known, despite years of rese		F, b		
	b. involves simple "yes-no," "on-off" el	ectrochemical impulses	New		
	c. involves neurons transitioning from o	one of four different electrochemical states			
	to another				
	d. is extremely flexible and complex, sin	milar to human spoken language			
42.	Electrically charged particles found both i	inside and outside the neuron are	46		
		. free radicals	C, d		
	b. nodes d	. ions	Old		

43.	Resting potential is the electrical charge across a neural membrane when ions concentrate on the outside and concentrate on the inside.  a. not enough negative; excess positive b. not enough positive; excess negative c. excess negative; excess positive d. excess positive; excess negative	46 F, d Old
44. ***	During its resting state, the electrical charge inside the neuron is the electrical charge outside the neuron.  a. positive compared to c. larger than b. negative compared to d. smaller than	46 F, b Old
45. ***	The cell body is enclosed by the a. axon c. cell membrane b. dendrite d. myelin sheath	46 F, c Old
46.	The cell membrane of a neuron is a. impermeable c. semi-permeable b. translucent d. completely permeable	46 F, c New
47.	An electrical charge occurs across the neural membrane when positive ions concentrate on the outside and negative ions concentrate on the inside, is known as  a. flux	46 C, d Old
48.	Organisms or fluids attempting to enter the cell body of a neuron must first pass through the  a. myelin sheath	46 A, b Old
49. ***	When the electrical charge inside a neuron is negative, in relation to the outside, the neuron is said to be in a state of  a. equilibrium	46 C, c Old
50.	<ul> <li>When a neuron is polarized,</li> <li>a. both positive and negative ions are concentrated outside the neural membrane</li> <li>b. positive ions are concentrated outside the neural membrane while negative ions are concentrated inside the membrane</li> <li>c. negative ions are concentrated outside the neural membrane while positive ions are concentrated inside the membrane</li> <li>d. both positive and negative ions are concentrated inside the neural membrane</li> </ul>	46 F, b Old
51. ***	When a neuron is polarized,  a. it cannot fire  b. the electrical charge inside is negative relative to the outside  c. the electrical charge inside is positive relative to the outside  d. sodium ions pass freely through the cell membrane	46 F, b Old
52.	When enough sodium atoms have entered the neuron to make the inside positively charged relative to the outside, the neuron is said to be  a. resting c. diffusing b. polarized d. depolarized	46 C, d Old

53.	Another term for a neural impulse is a(n) potential.	47	
	a. resting c. action	C, c	
	b. graded d. kinetic	Old	
54.	The process by which a neuron is depolarized in a surge running down the	47	
	length of an axon is called a(n) potential.	C, c	
	a. resting c. action	Old	
	b. graded d. kinetic		
55.	When sodium ions flow into a neuron and depolarize it, they create	47	
	a. a relative refractory period c. an action potential	C, c	
	b. breakdown of the cell nucleus d. internal combustion	Old	
	4 yr.: 84% r = .31		
56.	When sodium ions flow into a neuron and depolarize it, we say the neuron has	47	
	a. been neutralized c. refracted	C, d	
	b. reached equilibrium d. fired	Old	
	2 yr.: 81% r = .11		
57.	Which of the following statements is true?	47	
***	a. Signals above the threshold of excitation will prevent a neuron from firing.	F, d Old	
	<ul> <li>The strength (intensity) of a neuron's action potential depends on the strength of its excitation.</li> </ul>		
	c. A neuron fires in response to every message it receives.		
	d. Impulses in myelinated neurons may reach speeds of nearly 400 feet per second.		
58.	If an incoming message is not strong enough to cause a neuron to fire, it may cause a  4'		
***	shift in the electrical charge of just a tiny area of the neuron. This shift, which quickly	C, a	
	fades away, is called a(n)	Old	
	a. graded potential c. action potential		
	b. resting potential d. transitional polarization		
59.	A neuron will fire	47 F, c	
	a. in response to every impulse it receives		
	b. only when it receives two incoming messages at the same time		
	<ul><li>c. only when the incoming message is stronger than the neuron's firing threshold</li><li>d. only when the incoming messages are weaker than the neuron's firing threshold</li></ul>		
	4 yr.: 81% r = .51; 4 yr.: 81% r = .28		
60.	The level a neural impulse must exceed to cause a neuron to fire is called the	47	
	a. polarization limit c. threshold of excitation	C, c	
	b. kinetic ceiling d. kinetic potential	Old	
61.	A frog muscle is stimulated with an electric current but the muscle doesn't twitch. This	47	
***	probably happens because	A, c	
	a. the graded potential is too great	Old	
	b. the synapses are underactive		
	c. the threshold of excitation was not reached		
	d. ionic balance has been restored		

62.	<ul> <li>The "all or none" law is the principle stating that</li> <li>a. a neuron must be receiving only "fire" messages through its dendrites or it will not fire at all</li> <li>b. all the neurons in a particular area of the brain fire simultaneously or not at all</li> <li>c. a neuron fires at full strength or not at all</li> <li>d. all neurons in an area fire at the same intensity or not at all</li> </ul>	47 C, c Rev
63. ***	<ul> <li>The "all or none law" refers to the fact that</li> <li>a. all the neurons in a single nerve fire simultaneously or not at all</li> <li>b. all the neurons in a particular area of the brain fire simultaneously or not at all</li> <li>c. a neuron fires at full strength or not at all</li> <li>d. all the dendrites on a neuron must receive messages telling the neuron to fire or it will not fire at all</li> </ul>	47 C, c Old
	4 yr.: 97% r = .27	
64.	A neuron is likely to fire when stimulated by a strong signal.  a. more intensely c. in a coded sequence  b. for a longer period of time d. more often	47 F, d Old
65. ***	<ul> <li>Which of the following is true of neural impulses in a single neuron?</li> <li>a. The neuron may fire during the absolute refractory period.</li> <li>b. The strength of the neural impulse increases as the strength of the incoming message increases.</li> <li>c. The strength of the neural impulse decreases as the strength of the incoming message increases.</li> <li>d. The strength of the neural impulse is the same each time the neuron fires.</li> </ul>	47 F, d Old
	2 yr.: 53% r = .21	
66. ***	<ul> <li>Which of the following statements is true of the activity of neurons?</li> <li>a. The nerve impulse fades in strength as it travels through the neuron.</li> <li>b. Transmission of information at synapses occurs by means of direct physical contact between the nerve cells.</li> <li>c. The size and speed of the neural impulse is the same for a particular axon regardless of the strength of the stimulus that sets it off.</li> <li>d. None of the above are true.</li> </ul>	47 F, c Old
	4 yr.: 73% r = .14	
67. ***	Immediately after firing, a neuron cannot fire again no matter how strong the incoming messages may be. This period is called the period. a. absolute refractory c. primary refractory b. relative refractory d. polarization	47 C, a Old
68. ***	The period after firing in which a neuron is returning to its normal polarized state and will fire again only if the incoming message is extremely powerful is the period.  a. absolute refractory	47 C, b Old

69. ***	<ul> <li>How can the nervous system represent increases in the intensity of a stimulus?</li> <li>a. Only by an increase in the size of the action potential in each neuron that fires.</li> <li>b. Only by an increase in the number of neurons being fired.</li> <li>c. Only by an increase in the frequency of firing in each neuron.</li> <li>d. By increasing the number of neurons firing and the frequency of firing in each neuron.</li> <li>4 yr.: 72% r = .22</li> </ul>	47 A, d Old
70.	A teacher grading papers opens the door of the room in which she has been working and becomes aware of loud rock music coming from her son's radio. When she asks him to turn it off, he asks why she is just noticing it now when he's had it on for over 20 minutes. Which of the following psychological explanations is the <b>LEAST</b> plausible explanation of what occurred after she opened the door?  a. The volume of the music reached the threshold needed to fire her neurons.  b. The neurons involved began to fire more quickly than they had before.  c. The number of neurons firing increased considerably, bringing the music to her conscious awareness.  d. The strength of the neural impulses in each of the firing neurons increased markedly, bringing the music to her conscious awareness.	47 A, d Old
71.	<ul> <li>A young man is taking an important test in a large room. He is progressing nicely when, about ten minutes into the exam, the proctor opens the window and he becomes distracted by the noise of the traffic outside. Which of the following psychological explanations is the LEAST plausible explanation for what occurred when the window was opened?</li> <li>a. The volume of the traffic sounds reached the threshold needed to fire many of his neurons.</li> <li>b. The neurons involved began to fire more quickly than they had before.</li> <li>c. The neurons involved went into their absolute refractory period.</li> <li>d. The number of neurons firing increased considerably, bringing the noise of the traffic into his conscious awareness.</li> <li>4 yr.: 53% r = .22</li> </ul>	47 A, c Old
72. ***	<ul> <li>According to the textbook, which of the following statements is FALSE?</li> <li>a. The nerve impulse involves the exchange of electrically charged ions across the cell membrane.</li> <li>b. Within a neuron, information flows from dendrites to cell body to axon.</li> <li>c. Some neurons have axons that are several feet long.</li> <li>d. Neurons in the central nervous system have myelin sheaths, while those in the peripheral nervous system do not.</li> </ul>	44-47 F, d Old
73. ***	4 yr.: 75% r = .29 4 yr.: 83% r = .22  "Depolarization," "absolute refractory period," and "threshold" are terms that apply most directly to  a. brain wave patterns (EEGs) c. neural synapses  b. computerized axial tomography d. action potentials	46-47 C, d Old
74. ***	<ul> <li>Which of the following is NOT true of neural impulses?</li> <li>a. The neuron fires in response to every impulse it receives.</li> <li>b. Neural impulses travel at speeds ranging from 3 feet per second to 400 feet per second.</li> <li>c. The incoming message must be above a certain threshold to cause a neural impulse.</li> <li>d. The neuron may fire during the relative refractory period.</li> </ul>	44-47 F, a Old

### The Synapse

75.	The tiny space between the ax the	con terminal and the dendrite of another neuron is called	47 C, c			
	a. synaptic vesicle	c. synaptic cleft	Old			
	b. synaptic knob	d. synapse				
	4 yr.: 83% r = .32; 4 yr.: 8	6% r = .19				
76. ***	The entire area composed of the axon terminal of one neuron, the synaptic cleft, and the dendrite or cell body of the next neuron is called the					
	a. synaptic vesicle	c. synaptic space	C, d Old			
	b. synaptic knob	d. synapse				
	2 yr.: 81% r = .34					
77.		an axon, there is a tiny knob called the	48			
	a. synaptic cleft	c. synaptic knob	C, c			
	b. synaptic vesicle	d. receptor site	Old			
78.		an axon, there is a tiny knob called the	48			
	a. synaptic cleft	c. terminal button	C, c			
	b. synaptic vesicle	d. receptor site	Old			
79.	When a neural impulse crosses the synaptic space, it does so					
	a. like an electric spark					
		b. via direct contact between the axon and the dendrite				
	<ul><li>c. through chemicals</li><li>d. through some, as yet, unknown process</li></ul>					
80.						
***	a. myelin sheath	c. axon	48 F, b			
	b. synaptic space	d. cell membrane	Old			
81.	Tiny sacs in a synaptic knob that release chemicals into the synapse are called 48					
01.	a. synaptic vesicles	c. synaptic nodes				
	b. synaptic knobs	d. synaptic clefts	Old			
82.	When a neural impulse reache	es the end of an axon, it causes tiny oval sacs	48			
	at the end of the axon to release chemicals called					
	a. hormones	c. electrolytes	F, b Old			
	b. neurotransmitters	d. antioxidants				
83.	Chemicals released by the synaptic vesicles that travel across the synaptic space					
	and affect adjacent neurons ar		C, a			
	a. neurotransmitters	c. pathogens	Rev			
	b. androgens	d. ions				
84.	The term "neurotransmitter" r		48 C, a			
***		<b>v</b> 1				
		hemical compounds that increases the activity of the	Old			
	endocrine system c. the chemical substance w	which is produced when a nerve impulse moves through				
	the cell body of a neuron					
	d. the DNA contained in the					

85.	Locations on a neuron into which a specific neurotransmitter fits like a key into a lock are called		
	a. synaptic vesicles	c. receptor sites	C, c Old
	b. neural chiasms	d. response terminals	
86. ***	Which of the following is <b>NOT</b> to a. They are chemicals.	rue of all neurotransmitters?	48 F, d
	<ul><li>b. They are stored in synaptic versions.</li></ul>	esicles	Old
	c. They are released into the syr		010
	d. They increase the likelihood		
	4 yr.: 66% r = .18; 2 yr.: 61%	r = .16	
87.	Which of the following is <b>NOT</b> tr	rue of all neurotransmitters?	48
***	a. They are chemicals.	4 19 19 14	F, d
		ase the likelihood the next neuron will fire.	Old
	<ul><li>c. They are released into the syr</li><li>d. They are destroyed by chemic</li></ul>		
	, , ,	cais in the synapse.	
	4 yr.: 88% r = .26		
88.		ansmitter where neurons meet skeletal muscles.	48-49
	<ul><li>a. Acetylcholine</li><li>b. Dopamine</li></ul>	<ul><li>c. Serotonin</li><li>d. Endorphin</li></ul>	F, a Old
	-	•	
89.	An elderly male is diagnosed as having Alzheimer's disease. His physician tells him the disorder involves a deficiency of		48-49 A, a
	a. acetylcholine	c. serotonin	Old
	b. dopamine	d. norepinephrine	
90.	Which of the following neurotransmitters is known for its role in schizophrenia		48-49
***	and Parkinson's disease?		F, b
	a. acetylcholine	c. serotonin	Old
	b. dopamine	d. norepinephrine	
91. ***	A schizophrenic is <b>MOST</b> likely to have a problem with which of the following neurotransmitters?		
	a. acetylcholine	c. serotonin	A, b Old
	b. dopamine	d. norepinephrine	
	4 yr.: 29% r = .20		
92.	An elderly person with Parkinson's disease is <b>MOST</b> likely to have a problem with		
	which of the following neurotrans a. acetylcholine		A, b Old
	<ul><li>a. acetylcholine</li><li>b. dopamine</li></ul>	<ul><li>c. serotonin</li><li>d. norepinephrine</li></ul>	Olu
	-	а. погершериние	
	4 yr.: 50% r = .23		
93.	A middle-aged person who is dep the following neurotransmitters?	ressed MOST likely has a problem with which of	49
	a. acetylcholine	c. serotonin	A, c Old
	b. dopamine	d. norepinephrine	Olu
	o. dopumino	a. norepinepinine	

94.	Which of the following neurotransmitters is <b>MOST</b> like a "master key" that opens many locks and attaches to as many as a dozen receptor sites?	49 C, a
	a. serotonin c. dopamine	Old
	b. norepinephrine d. acetylcholine	Old
95.	The neurotransmitter known as the "mood molecule" is	49
	a. acetylcholine c. serotonin	C, c
	b. dopamine d. norepinephrine	Old
96.	Endorphins	49
	a. are found where neurons meet skeletal muscles	F, c
	b. are less powerful than enkaphalins	Old
	<ul><li>c. reduce pain messages in the brain</li><li>d. are radically different in function from neurotransmitters</li></ul>	
	4 yr.: 86% r = .22; 2 yr.: 78% r = .39	
97.	Pain-reducing chemicals that occur naturally in the brain are called	49
	a. globulins c. histamines	C, d Old
	b. androgens d. endorphins	Old
98.	Painkilling drugs that lock into the same receptor sites as endorphins are	49
	a. barbiturates c. neuroleptics	F, b
	b. opiates d. beta-blockers	Old
99.	Because they have similar chemical structures, morphine and other opiates are able to	49
	lock into receptor sites for	F, d
	a. acetylcholine c. serotonin	Old
	b. dopamine d. endorphins	
	4 yr.: 85% r = .14; 2 yr.: 88% r = .23	
100.	Schizophrenia is related to a(n)	49
	a. overabundance of dopamine	F, a
	b. blocking of dopamine receptor sites	Old
	c. lack of adequate dopamine	
	d. inability to reabsorb dopamine back into the synaptic vesicles	
101.	Depression is linked to an	49
	a. undersupply of serotonin and norepinephrine	F, a
	b. undersupply of serotonin and an oversupply of norepinephrine	Old
	c. oversupply of serotonin and an undersupply of norepinephrine	
	d. oversupply of serotonin and norepinephrine	
Neui	ral Plasticity and Neurogenesis	
102.	M. R. Rosenzweig examined rats by studying the	50
	a. behavioral effects of lesions in different parts of their brains	F, c
	b. sexual orientation effects of prenatal exposure to maternal hormones	Old
	c. effects on their brains of exposure to impoverished or enriched environments	
	d. effects on their brains of electrical stimulation to the frontal and parietal lobes	

103.			ared to rats raised in an impoverished ironment had neurons with	50 F, d Old
	a. smaller; fewer	c.	larger; fewer	
	b. smaller; more		larger; more	
104.	neurons with more synaptic connecti	ions		50 F, d
	<ul><li>a. only in infant rats</li><li>b. only in adolescent rats</li></ul>		only in mature rats	Old
	b. Only in adolescent rats	u.	in rats of any age	
105.	The ability of the brain to change in			50
	a. neurogenesis		reticular formation	C, d
	b. neural plasmosis	d.	neural plasticity	Old
106.	read lips and sign language c. experience causes changes in the	to chan ain usu e streng		51 F, a New
107.	The process in which stem cells become	ome ne	urons is known as	52
107.	a. plasmosis	с.	neural plasticity	C, b
	b. neurogenesis	d.	reticular formation	Old
108.	Traditionally, injuries to the spinal cord have been considered			
	a. temporary		permanent	52 F, c
	b. treatable		fatal	Old
109.	Undifferentiated precursor cells that, specialized cell in the body are called a. stem b. glial	d	the right conditions, can give rise to any cells. receptor T-cells	52 C, a Old
110.	Before birth, human fetuses have a lare capable of becoming neurons.	arge su	pply of cells known as cells, that	52 F, a
	a. stem		mast	Old
	b. Schwann	a.	glial	
111.	In tests with animals, stem cells tran a. died almost immediately b. functioned for a while, but slow c. survived but did not function or d. migrated to damaged areas and replacement	ly died	off	52 F, d Old
112.	In patients suffering from Parkinson improved motor control  a. no more than 3 to 5 years  b. for periods of 5 to 10 years	's disea c. d.	for periods of 10 to 20 years	52 F, b Old

113.	In research with human patients suffering from Parkinson's disease, fetal nerve cell transplants  a. resulted in no improvement in motor control  b. resulted in only sporadic, temporary improvements in motor control  c. improved motor control for periods of only 1 to 4 years  d. improved motor control for periods of 5 to 10 years	F, d Old
114.	Research on human brain tissue has found that human brains are  a. not capable of neurogenesis after birth  b. capable of neurogenesis only during early childhood  c. capable of neurogenesis only through adolescence  d. capable of neurogenesis even in adulthood	52 F, d Old
115.	The chemical has been shown in rats to stimulate undamaged nerve fibers to grow new connections and restore motor functioning.  a. adenosine	52 F, b Old
The	Central Nervous System	
116. ***	The nervous system is comprised of two major parts:  a. the central nervous system and the peripheral nervous system  b. the afferent nervous system and the efferent nervous system  c. the sympathetic nervous system and the parasympathetic nervous system  d. the brain and the spinal cord	53 F, a Old
	2 yr.: 73% r = .29	
117.	The two main components of the human nervous system are the nervous system and the nervous system.  a. somatic; autonomic  b. sympathetic; parasympathetic  c. central; peripheral  d. spinal; endocrine	53 F, c Old
	4 yr.: 93% r = .17	
118.	The division of the nervous system that consists of the brain and spinal cord is the system.  a. peripheral nervous  b. endocrine  c. central nervous  d. primary nervous	53 C, c Old
119.	The central nervous system contains about percent of the body's neurons. a. 10 c. 70 b. 30 d. 90	53 F, d Old
120.	The brain and spinal cord contain about percent of the body's neurons.  a. 15	53 F, d Old
	4 yr.: 83% r = .18	
121.	The peripheral nervous system contains about percent of the body's neurons. a. 10 c. 70 b. 30 d. 90	53 F, a Old

122.	The division of the nervous system that connects the brain and spinal cord to the rest of the body is the system.					
	a. peripheral nervous	_ system. c.	central nervous	C, a Old		
	b. endocrine	d.		Old		
123.	Structurally, the nervous system	n has	_ major parts.	53		
	a. two		four	F, a		
	b. three	d.	five	Old		
124.	The central nervous system con			53		
***	a. the parasympathetic and sy	mpathetic d	ivisions	C, b		
	b. the brain and spinal cord			Old		
	<ul><li>c. muscles and glands</li><li>d. sense organs and sensory no</li></ul>	eurons				
		<b>- 4</b>				
	4 yr.: 83% r = .25					
125.	The central nervous system con			53		
***	a. the somatic and autonomic	•	stems	C, b		
	<ul><li>b. the brain and the spinal cor</li><li>c. all the nerves in the center</li></ul>		that take messages from the environment	Old		
	c. all the nerves in the center of the body that take messages from the environment and send them to the brain and spinal cord					
	d. the sympathetic and parasympathetic divisions, which control the inner or central					
	part of the body					
126.	All nerve cells and fibers that are <b>NOT</b> in the brain or spinal cord make up the					
***	nervous system.			C, b		
	a. central	c.		Old		
	b. peripheral	d.	sympathetic			
127.	The autonomic nervous system consists of					
	a. the parasympathetic and sympathetic divisions					
	b. the brain and spinal cord					
	c. muscles and glands					
	d. sense organs and sensory neurons					
128.	The branch of the nervous system which transmits to the brain information about body					
	movements and the external env			C, c		
	a. central	c.	somatic	Old		
	b. autonomic	u.	tertiary			
129.	The branch of the nervous system which transmits information to and from the internal					
	organs and glands is the	•		C, b		
	<ul><li>a. central</li><li>b. autonomic</li></ul>	c. d.	somatic tertiary	Old		
	o. autonomic	u.	cram y			
130.			ions are part of the nervous system.	54		
	a. central	C.	3	C, d		
	b. somatic	d.	autonomic	New		

### The Brain

131.		c.	peripheral nervous system	54 C, a
	b. spinal cord	d.	endocrine system	Old
132.		c.	four	54 F, b Old
	b. three	a.	five	
133.	Which of the following is <b>NOT</b> one of the different stages of evolution?	he la	yers of the brain that evolved in	54 F, a
			the limbic system	Old
	b. the central core	d.	the cerebral hemispheres	
134.	At the point where the spinal cord enters	the	skull, it becomes the	54
	<i>3</i>	c.	midbrain	F, b
	b. hindbrain	d.	forebrain	Old
135.	The is believed to be the earliest	par	t of the brain that evolved.	54
		-		F, b
	b. hindbrain	d.	forebrain	Old
136.	The part of the brain containing the med	ulla	, the pons, and the cerebellum is the	54-55 C, c
	a. limbic system	c.	hindbrain	Old
	b. cortex	d.	corpus callosum	
137. ***	The part of the hindbrain that controls su rate, and blood pressure is the	ich f	functions as breathing, heart	54 C, c
		c. d.	medulla cerebellum	Old
	4 yr.: 79% r = .33; 4 yr.: 84% r = .40	)		
138.	, 6	c.	·	55 F, c Old
	o. pons	u.	Cerebellulli	
139. ***				55 A, d Old
	2 yr.: 75% r = .32			
140.	produces chemicals that help maintain or a. cerebellum		messages to the upper areas of the brain and vake-sleep cycle is the basal ganglia pons	55 C, d Old

141.	A young woman recovering from a blow to her head finds she has great difficulty maintaining her balance and coordinating her movements. Injury to which part of her brain is likely to be causing her difficulties?					
	a. cerebellum	c.	cerebral cortex	Old		
	b. medulla	d.	thalamus			
	4 yr.: 51% r = .42					
142.	The cerebellum			55		
	a. controls blood pressure			F, c		
	<ul><li>b. is involved in emotional behavior</li><li>c. coordinates actions so that move</li></ul>			Old		
	<ul><li>c. coordinates actions so that move</li><li>d. relays messages from the sensor</li></ul>					
	4 yr.: 61% r = .28; 2 yr.: 64% r =	: .38				
143. ***	The is located to the rear of t and controls balance.	he brai	n stem; it coordinates voluntary movement	55 F, c		
	a. medulla	c.	cerebellum	Old		
	b. cerebrum	d.	limbic system			
144.	The part of the hindbrain sometimes called the "little brain" is the 55					
	a. medulla	c.		F, b		
	b. cerebrum	d.	limbic system	Old		
145. ***	Susan has a degenerative disease which causes her to lose her balance easily and to move in a jerky and uncoordinated way. She cannot drink from a glass without spilling it  A					
7, 7, 7,				A, c Old		
		c.	disease is probably affecting her cerebellum	Ola		
	a. hypothalamus b. midbrain	d.				
	o. midoram	u.	reticular formation	55-56		
146.	The part of the hindbrain involved in emotional control, attention, memory, and coordinating sensory information is the					
	a. medulla	пе с.		F, c Old		
	b. cerebrum	d.		Olu		
147.	Recent research indicates that disorder	ers suc	h as autism, schizophrenia, and attention	56		
	deficit disorder all may be associated with dysfunction in the					
	a. cerebellum	c.	pons	New		
	b. medulla	d.	midbrain			
148.	The part of the brain where pain is re	egistere	ed and which is important	56		
***	in hearing and sight is the	Ü		C, c		
	a. medulla	c.	midbrain	Old		
	b. hypothalamus	d.	reticular formation			
149.	The midbrain is largely involved in each of the following functions <b>EXCEPT</b>					
	a. perception of pain		hearing	F, b		
	b. regulation of hunger and thirst	d.	sight	Old		
150.	The structure directly over the brain	stem th	at relays and translates sensory	56		
***	information is the		1.1	C, d		
	a. hippocampus	C.	amygdala	Old		
	b. hypothalamus	d.	thalamus			

151. ***	The part of the brain which acts as a switchboard or relay station, sending incoming messages to the appropriate areas of the brain, is the			
				C, a Old
	a. thalamus b. hypothalamus	c. d.	pons medulla	Olu
152.			ostat," regulating hunger, thirst, sexual	56
	drive, and body temperature is the _			C, d
	a. hippocampus	c.	thalamus	Old
	b. amygdala	d.	hypothalamus	
153. ***	terror, or pleasure is the	r emotio	nal behavior such as experiencing rage,	56 C, d
	a. hippocampus	c.	thalamus	Old
	b. amygdala	d.	hypothalamus	
	4 yr.: 54% r = .37; 4 yr.: 64% r	= .10		
154. ***	Eating, drinking, sexual behavior, s influenced by the	leeping,	and temperature control are most strongly	56 C, d
	a. medulla	c.	pons	Old
	b. amygdala	d.	hypothalamus	
	4 yr.: 83% r = .31 4 yr.: 87% r =	.20		
155.	no matter how much he eats, he is s he still constantly wants to eat. His	still hung physicia	ag his appetite. All he wants to do is eat, and gry. His weight is approaching 400 pounds and an says the problem is due to a disorder in a er is <b>MOST</b> likely to be the  thalamus hypothalamus	56 A, d Old
156.	He found that during the day someofurious and began pounding on the brain was guiding his behavior?  a. the thalamus  b. the hypothalamus	one had l	ar to get some books to return to the library. badly smashed his rear bumper. He was d shouting obscenities. What area of the the medulla the midbrain	56 A, b Old
	2 yr.: 70% r = .35			
157.			an's list, and she's in ecstasy singing and ne brain is directing her emotional reaction? the reticular formation the cingulate gyrus	56 A, a Old
158.			idbrain, and part of the forebrain whose igher parts of the brain is the temporal lobe endocrine system	56 C, b Old
159.	*	ert" mess	ages to the cerebral cortex is the	56
***	a. limbic system	c.	temporal lobe	C, b
	b. reticular formation	d.	endocrine system	Old

160.	Anesthetics work primarily by shutting down the					
***	a. limbic system	c.		F, d		
	b. endocrine system	d.	reticular formation	Old		
161.	Permanent damage to the reticular	formatio	n can cause	56		
	<ul> <li>a. hyperactive behavior</li> </ul>	c.		F, c		
	b. problems with equilibrium	d.	nightmares	Old		
162.	The part of the brain most people th	nink of v	when they talk about the brain is the	56		
***	a. cerebral cortex	c.		F, a		
	b. pons	d.	cerebellum	Old		
163.	The outer surface of the two cerebr is called the	al hemis	pheres that regulate most complex behavior	56 C, c		
	a. cerebellum	c.	cerebral cortex	Old		
	b. corpus callosum	d.	substantia nigra			
164.	The most recent part of the nervous	system	to evolve is the	56		
	a. cerebral cortex	c.	limbic system	F, a		
	b. cerebellum	d.	midbrain	Old		
	4 yr.: 70% r = .31; 2 yr.: 61% r	= .14				
165.			percent of the neurons in the human	56		
	central nervous system.	_	70	F, c		
	a. 30 b. 50	c. d.		Old		
166.	The cerebral cortex accounts for about percent of the weight of the human brain.					
100.	a. 20	c.		56 F, d		
	b. 40	d.		New		
167.	The intricate network of folds hills and valleys that line the outer surface of					
	the cerebral cortex, allowing it to fi	t inside	the skull, are called	C, d		
	<ul> <li>sensory projection areas</li> </ul>	c.	motor projections	Old		
	b. association areas	d.	convolutions			
	4 yr.: 39% r = .30					
168.		nto mea	ningful impressions in the areas.	56		
	a. sensory projection	c.	1 3	F, b		
	b. association	d.	convolution	Old		
	4 yr.: 48% r = .29					
169.	The association areas are to	as the c	erebellum is to	56		
***	a. thinking; motor coordination			A, a		
	b. interconnection between hemis			Old		
	c. temperature regulation; motor					
	d. precise perception; aggressive	benavio	ī			
170. ***	Messages from separate senses are		_	56		
<b>ツマウ</b>	a. sensory projection areas	C.		F, c		
	b. motor projection areas	d.	midbrain	Old		

171.	The lobe accounts for about one-half	f the volume of the human brain.	56		
	a. occipital c.	parietal	F, d		
	b. temporal d.	frontal	Old		
172.	The site of many mental processes that are us		56		
***	planning ability, and goal-directed behavior)		F, d		
	•	parietal	Old		
	b. temporal d.	frontal			
	4 yr.: 80% r = .27; 2 yr.: 77% r = .45;	2 yr.: 60% r = .42			
173.	The lobe of the brain that serves as the "execution lobe."	eutive control center" for the brain is the	56 F, d		
	a. occipital c. parietal		Old		
	b. temporal d. frontal		Old		
174. ***	Messages from the brain to the various musc journey in the	les and glands in the body begin their	56 F, c		
		primary motor cortex	Old		
		primary somatosensory cortex			
175.	The section of the frontal lobe responsible for	or voluntary movement is the	56		
		primary motor cortex	C, c		
	b. association areas d.	primary somatosensory cortex	New		
176.	The primary motor cortex is located in the _		56		
		temporal	F, a		
	b. parietal d.	occipital	New		
177.	The lobe of the brain most involved in motivation, persistence, emotional responses,				
	character, and moral decision making is the		F, d		
		parietal	Old		
	b. temporal d.	frontal			
178.	Phineas Gage was a foreman on a railroad cr accident. After the accident, he lost interest i goal-directed behaviors. He seemed apathetic The damaged part of his brain was probably	n his job and had difficulty maintaining any c and capable of only shallow emotions.	57 A, d Old		
		parietal			
	b. temporal d.	frontal			
	4 yr.: 94% r = .24				
179.	After an industrial accident in which George had trouble following directions or completin although he has periods of boastfulness and sprobably the lobes.	ng his normal work tasks. He is also apathetic,	57 A, a Old		
		parietal			
		occipital			
180.	The lobe of the cerebral cortex that receives	and coordinates messages from the	57		
		lobe.	F, d		
	•	parietal	Old		
	b. temporal d.	frontal			

181.	Loss of motivation and ability to concentrate is the major outcome of damage to the lobe.				
	a. occipital	c.	parietal	F, d Old	
	b. temporal	d.	frontal	014	
182.	The part of the brain that receives and i	inter	prets visual information is the lobe.	57	
	a. occipital	c.	parietal	C, a	
	b. temporal	d.	frontal	Old	
183.	After a head injury a person reports tha			57	
***	uninjured. A doctor would suspect an i		•	A, b	
	a. frontal		parietal	Old	
	b. occipital	d.	temporal		
184.	body from sense receptors in the skin, i		sensory information from throughout the cles, joints and internal organs is the lobe.		
	a. occipital	c.	1	Old	
	b. temporal	d.	frontal		
185.		g oth	esulted in an injury to her brain. She now has er people how to get somewhere. She has lobe.	58 A, c Old	
	a. occipital	c.			
	b. temporal	d.	- <del>-</del> -		
186.	Messages from the sense receptors are the	regis	stered in those areas of the brain called	58 F, a	
	<ul> <li>a. primary somatosensory cortex</li> </ul>	c.	motor projection areas	Old	
	b. association areas	d.	hemispheric lateralization areas		
187.	The primary somatosensory cortex is located in the lobe.				
	a. occipital	c.	parietal	F, c	
	b. temporal	d.	frontal	Old	
188. ***	The part of the brain that helps regulate emotions and motivation, and recogniz			58 C, b	
	a. occipital	C.		Old	
	b. temporal	d.	-	Olu	
	•				
189. ***	difficulty maintaining her balance and	norn	esulted in an injury to her brain. She now has nal body positions. Her ability to understand ured. The part of her brain <b>MOST</b> likely	58 A, b Old	
	a. occipital	c.	parietal		
	b. temporal	d.	frontal		
190. ***	Corey was in an automobile accident the difficulty with her hearing and her ability MOST likely injured was herl	ity to		58 A, b Old	
	a. occipital	c.	parietal		
	b. temporal	d.	frontal		

4 yr.: 76% r = .45

191.	The lobe of the brain that regulates emotions and motivations such as anxiety, pleasure, and anger is the lobe.				
	a. occipital	c.	parietal	C, b Old	
	b. temporal	d.	frontal	010	
192.			ween the central core and the cerebral olved in the formation of new memories is	58 C, a Old	
	a. limbic system	c.	pons		
	b. reticular formation	d.	endocrine system		
193.	The limbic system is responsible for			58	
	a. filtering incoming messages to t			F, d	
	b. connecting the brain to the rest of			Old	
	<ul><li>c. fighting disease organisms that a</li><li>d. controlling learning and emotion</li></ul>				
194.	The limbic system is fully developed	l only ii	n	58	
	a. mammals	ċ.	••	F, a	
	b. vertebrates	d.	mammals and reptiles	Old	
195.	George was in an automobile accide	nt sever	ral years ago in which he suffered severe	58	
***	head injuries. Since the mishap, he h remember everything he did before t said five minutes ago. The part of Go	as been he acci	unable to form new memories. He can dent but he cannot remember what he just brain the was injured was probably the	A, a Old	
	<ul><li>a. hippocampus</li><li>b. brain stem</li></ul>	c. d.			
			-		
196.			cially important to emotions related to self- r or panic reactions or attack behaviors are	58 F, b Old	
	a. reticular formation and the amyg	gdala			
	b. amygdala and the hippocampus				
	<ul><li>c. septum and the cingulate gyrus</li><li>d. hippocampus and the cingulate g</li></ul>	gyrus			
197.			ral activity in the human limbic system	58	
***	produces increases in aggressive behavior. Which of the following findings would <b>NOT</b> provide support for your theory?				
	a. A depressant drug is administered to an area of the brain that inhibits the limbic				
	_		nbic system is destroyed and aggression		
	increases. c. The limbic system is stimulated	alaatria	polly and aggression increases		
	<ul><li>c. The limbic system is stimulated</li><li>d. Portions of the limbic system are</li></ul>				
	4 yr.: 43% r = .22				
198.	Our ability to read the facial expressi	ions of	emotion in other people is registered	58	
	primarily in the			F, c	
	a. thalamus	c.	limbic system	New	
	b. hypothalamus	d.	corpus callosum		

### Hemispheric Specialization

199.	The thick bundle of nerves connecting the two cerebral hemispheres which coordinates their activities is the a. corpus callosum	58 C, a Old
	4 yr.: 78% r = .31; 4 yr.: 93% r = .05; 2 yr.: 81% r = .37	
200.	"Split brain" patients are patients who have had  a. a prefrontal lobotomy  b. their cerebellum split in the middle  c. their corpus callosum cut out  d. their brain stem cut down the middle	59 C, c Old
	4 yr.: 88% r = .19	
201.	<ul> <li>A "split-brain" patient is asked to stare at a spot on a screen. When a picture of an object is shown to the RIGHT of the spot, the patient can</li> <li>a. identify the object verbally and pick it out of a group of hidden objects using her right hand</li> <li>b. identify the object verbally and pick it out of a group of hidden objects using her left hand</li> <li>c. pick the object out of a group of hidden objects using her left hand, but cannot identify it verbally</li> <li>d. pick the object out of a group of hidden objects using her right hand, but cannot identify it verbally</li> </ul>	59-60 A, a Old
	4 yr.: 28% r = .25	
202.	<ul> <li>A "split brain" patient is asked to stare at a spot on a screen. When a picture of an object is shown to the LEFT of the spot, the patient can</li> <li>a. identify the object verbally and pick it out of a group of hidden objects using her right hand</li> <li>b. identify the object verbally and pick it out of a group of hidden objects using her left hand</li> <li>c. pick the object out of a group of hidden objects using her left hand, but cannot identify it verbally</li> <li>d. pick the object out of a group of hidden objects using her right hand, but cannot identify it verbally</li> </ul>	59-60 A, c Old
	4 yr.: 19% r = .15	
203.	Split-brain patients who are shown objects in such a way that the visual information goes only to the right hemisphere of the brain  a. can name the objects, but cannot point to them with their right hand  b. can name the objects and can point to them with their right hand  c. cannot name the objects, but can point to them with their right hand  d. can neither name the objects nor point to them with their right hand  4 yr.: 82% r = .22 4 yr.: 80% r = .22	59-60 A, c Old
	$+ y_1 0270 122 + y_1 0070 122$	

204.	Split-brain patients who are shown objects in such a way that the visual information goes only to the left hemisphere of the brain  a. can name the objects, but cannot point to them with their left hand  b. can name the objects and can point to them with their left hand  c. cannot name the objects, but can point to them with their left hand  d. can neither name the objects nor point to them with their left hand	59-60 A, a Old
205.	Which hemisphere of the cerebral cortex is usually dominant in language tasks?  a. the front hemisphere c. the left hemisphere  b. the rear hemisphere d. the right hemisphere	60 F, c Old
	4 yr.: 81% r = .24; 2 yr.: 58% r = .30	
206.	The fact that language is usually related most closely to the left hemisphere explains why  a. the left hemisphere is usually larger than the right  b. stroke victims with paralysis on the left side of the body may have severe speech problems  c. damage to the left hemisphere may cause language disorders  d. the right hemisphere is usually larger than the left	60 F, c Old
	4 yr.: 50% r = .13	
207.	Language is processed primarily in the left hemisphere  a. only in right-handers  b. only in left-handers  c. in most right-handers but only a few left-handers  d. in the majority of right-handers and left-handers	60 F, d Old
208.	Which hemisphere of the cerebral cortex is usually dominant in spatial tasks?  a. the front hemisphere c. the left hemisphere b. the rear hemisphere d. the right hemisphere	60 F, d Old
	4 yr.: 71% r = .35	
209.	A baby is born with an impairment of his left cerebral hemisphere, but it is not discovered until years later, when certain clues are pieced together. Which of the following is <b>MOST</b> likely to be one of those clues?  a. He has difficulty perceiving concepts and spatial relationships.  b. He has difficulty with geometry.  c. He has difficulty learning to read.  d. He has difficulty recognizing people's faces.	60 A, c Old
	2 yr.: 45% r = .34	
210.	A baby is born with an impairment in her right cerebral hemisphere, but it is not discovered until years later, when certain clues are pieced together.  Which of the following is <b>LEAST</b> likely to be one of those clues?  a. She has difficulty perceiving spatial relationships.  b. She has severe language problems.  c. She has trouble understanding the meaning of a story that is read to her.  d. She has trouble picking up objects with her left hand.	60 A, b Old

211.	The hemisphere that specializes in analyzing sequences and details is thehemisphere.					
	<ul><li>a. front</li><li>b. rear</li></ul>	c. left d. right	Old			
212	The bearing bear that are significant	•	<i>c</i> 0			
212.		lizes in holistic processing is the hemisphere. c. left	60 F, d			
	a. front b. rear	d. right	Old			
	0. 10	a. Agai	010			
213.		erful, sociable, and self-confident when the	60			
		s more active than the hemisphere of their brain.	F, b			
	a. right; left	c. front; rear	Old			
	b. left; right	d. rear; front				
214.	People tend to be more easi	ily stressed, frightened, and depressed when the	60			
	hemisphere of their brain is	s more active than the hemisphere of their brain.	F, a			
	a. right; left	c. front; rear	Old			
	b. left; right	d. rear; front				
215.	A patient suffering from a s	seizure disorder has his right hemisphere anesthetized.	60			
	Which of the following is h		A, c			
	a. fall into a deep sleep	·	Old			
	b. fly into an uncontrollable rage					
	c. laugh and express posi	tive emotions				
	d. cry					
216.	A patient suffering from a seizure disorder has his left hemisphere anesthetized.					
	Which of the following is he <b>MOST</b> likely to do?					
	a. fall into a deep sleep					
	b. fly into an uncontrollal					
	c. laugh and express posi	tive emotions				
	d. cry					
217.	The hemisphere most involved in preserving one's sense of identity or "self" is the					
	hemisphere.					
	a. front	c. left	F, d			
	b. rear	d. right	New			
218.	Each of the following states	ments about differences in hemispheric functioning is true	60-61			
	EXCEPT					
	a. differences in the hemispheres appear to be greater in women than in men					
	b. not everyone shows the same pattern of difference in functioning between the left					
	and right hemispheres					
	c. normally, the two hemispheres communicate with each other and work together in					
	<ul><li>an integrated, coordinated way</li><li>both hemispheres have the potential to perform a wide range of tasks</li></ul>					
	_					
219.		ost well known for studying how the brain processes	61			
	a. pain	c. spatial information	F, b			
	b. language	d. abstract information	Old			
220.	The notion that human lang	guage is primarily controlled by the left hemisphere was first	61			
	set forth by		F, a			
	a. Broca	c. Gall	Old			
	b. Wernicke	d. Korsakoff				

221.	The area of the frontal lobe which is o	rucial	•	61
	a. Broca's	c.	Gall's	F, a
	b. Wernicke's	d.	Korsakoff's	Old
222.	The area at the back of the temporal le	obe th	nat is crucial in our ability to listen, process,	61
	and understand what others are saying			F, b
	a. Broca's	c.	Gall's	Old
	b. Wernicke's	d.	Korsakoff's	
223.	Simply put, Broca's area is important for	for _	, and Wernicke's area is important	61 F, c
		C.	talking; listening	Old
	b. listening; talking		talking; talking	
224.	Language difficulties that often result	from	strokes or other brain injuries are called	61 C, c
	a. hematomas	c.	aphasias	Old
	b. anosmias	d.		014
225.	Amy has suffered damage to Broca's aphasia.	area i	n her brain. She is most likely to exhibit	61 A, a
	a. expressive	c.	occlusive	Old
	b. inclusive	d.	receptive	
226.	aphasia.	e's ar	rea in her brain. She is most likely to exhibit	61 A, d
	a. expressive	c.		Old
	b. inclusive	d.	receptive	
227.	Approximately percent of hur	nans a	are right-handed.	61
	a. 60	c.		F, d
	b. 70	d.		New
228.	Left-handedness appears to be the res	ult of		61
220.		uit Oi	·	F, d
	<ul><li>a. exclusively genetic influences</li><li>b. exclusively environmental influences</li></ul>	naac		r, u New
	c. exclusively prenatal influences	iices		New
	d. a combination of genetic, enviror	ment	al, and prenatal influences	
	-		-	
229.	Males are likely than females	to be		61
	a. much less	c.	slightly more	F, c
	b. slightly less	d.	much more	New
230.	Non-human primates show a(n)			61
	a. strong tendency to be right-hande			F, a
	b. equal likelihood of being right- o		handed	New
	c. strong tendency to be ambidextre	ous		
	d. strong tendency to be left-handed	l		
Tools	for Studying the Brain			
231.	techniques are used to study t	he fur	actions of single neurons.	62
	a. Macroelectrode	c.	Structural imaging	C, b
	b. Microelectrode	d.	Functional imaging	Old
			<i>5 6</i>	

232.	Microelectrode techniques are used t	ю	·	62 C, a		
	a. study single neurons					
	b. study overall activity in particular regions of the brain					
	c. map structures in the living brain					
	d. observe neural activity as it reac	ts to se	nsory stimuli			
233.	A technique in which a tiny quartz or	r glass į	pipette (smaller in diameter than a human hair)	62		
			ed on the surface of a neuron so that scientists	C, c		
	can study changes in the electrical conditions of that particular neuron is called					
	<ul> <li>a macroelectrode technique</li> </ul>					
	b. structural imaging					
	c. a microelectrode recording techn	nique				
	d. functional imaging					
234.	techniques are used to obtain	n an ove	erall picture of activity in particular regions	62		
	of the brain.			C, a		
	a. Macroelectrode		Structural imaging	Old		
	b. Microelectrode	d.	Functional imaging			
235.	Macroelectrode techniques are used	to	<u></u> ;	62		
	a. study single neurons			C, b		
	b. study overall activity in particular		ons of the brain	New		
	c. map structures in the living brain					
	d. observe neural activity as it reac	ets to se	nsory stimuli			
236.	The first window into the electrical a	ctivity		62		
	a. CT scanning	c.	MRI	F, d		
	b. MEG	d.	the EEG	Old		
237.	Which of the following is a type of macroelectrode technique?					
	a. CT scanning	c.		C, b		
	b. EEG	d.	MEG	Old		
238.	If you wanted to measure various brain waves, which of the following techniques					
	should you use?			A, a		
	a. a macroelectrode technique		functional imaging	Old		
	b. a microelectrode technique	d.	structural imaging			
239.	A technique in which more than two dozen electrodes are placed at important locations					
	on the scalp and they then record the brain's electrical activity in a way that is converted					
	by a computer into colored images on a TV screen and used to detect abnormal cortical					
	activity such as that occurring during an epileptic seizure is					
	a. magnetic resonance imaging (M					
	b. magnetoencephalography (MEC					
	c. positron emission tomography (PET) scanning					
	d. electroencephalography (EEG) imaging					
240.	When brain researchers want to map	the stru	uctures in a living human brain, they turn to	62 C, c		
	a. macroelectrode techniques	c.	$\mathcal{E}$	Old		
	b. microelectrode techniques	d.	functional imaging			
241.		chers to	"listen" but not "look" at what is going on	63 C, a		
	inside the brain.					
	a. macroelectrode	c.	structural imaging	Old		
	b. microelectrode	d.	functional imaging			

242.	Structural imaging techniques are used to				
	a. study single neurons	C, c			
	b. study overall activity in particular regions of the brain	New			
	c. map structures in the living brain				
	d. observe neural activity as it reacts to sensory stimuli				
243.	When brain researchers want to map the structures in a living human brain, they use	63 C, b			
	a. an EEG c. EEG imaging	Old			
	b. a CAT scan or an MRI d. MEG or MSI				
244.	A technique in which an X-ray photography unit rotates around a patient, moving from	63			
	the top of the head to the bottom, creating a series of images that are combined by a	C, c			
	computer to produce pictures of the inner regions of the brain is called	Old			
	a. magnetic resonance imaging (MRI)				
	b. EEG imaging				
	c. computerized axial tomography scanning (CT scanning)				
	d. magnetic source imaging (MSI)				
245.	Which of the following would provide the best map of physical structures	63			
	in the brains of living human beings?	F, a			
	a. magnetic resonance imaging (MRI)	Old			
	b. magnetoencephalography (MEG)				
	c. positron emission tomography (PET) scanning				
	d. electroencephalography (EEG) imaging				
246.	The brain scanning technique that offers the most hope for understanding	63			
	disorders such as amnesia and dyslexia is	A, b			
	a. magnetic resonance imaging (MRI)	Old			
	b. magnetoencephalography (MEG)				
	c. positron emission tomography (PET) scanning				
	d. electroencephalography (EEG) imaging				
247.	Each of the following is a functional imaging technique <b>EXCEPT</b>	63			
	a. magnetic source imaging (MSI)	C, c			
	b. positron emission tomography (PET) scanning	Old			
	c. magnetic resonance imaging (MRI)				
	d. magnetoencephalogaphy (MEG)				
248.	The brain scanning technique that offers the most hope for understanding	63			
	disorders such as amnesia and dyslexia is	A, b			
	a. magnetic resonance imaging (MRI)	Old			
	b. magnetic source imaging (MSI)				
	c. positron emission tomography (PET) scanning				
	d. electroencephalography (EEG) imaging				
249.	A brain imaging technique that uses radioactive energy to map brain activity is	63			
	a. magnetic source imaging (MSI)	C, b			
	b. positron emission tomography (PET) scanning	Old			
	c. magnetic resonance imaging (MRI)				
	d. magnetoencephalogaphy (MEG)				

250.	A brain imaging technique that measures the movement of blood molecules in the brain is	64 C, c		
	<ul><li>a. magnetic resonance imaging (MRI)</li><li>b. positron emission tomography (PET) scanning</li></ul>	Old		
	c. functional magnetic resonance imaging (fMRI)			
	d. magnetoencephalogaphy (MEG)			
251.	An imaging technique that has been useful in helping researchers discover the biological origins of attention-deficit hyperactivity disorder is  a. magnetic source imaging (MSI)	64 C, c Old		
	b. positron emission tomography (PET) scanning	010		
	c. functional magnetic resonance imaging (fMRI)			
	d. magnetoencephalogaphy (MEG)			
252.	Functional imaging techniques are used to	63-64		
	<ul><li>a. study single neurons</li><li>b. study overall activity in particular regions of the brain</li></ul>	C, c New		
	c. map structures in the living brain	TYCW		
	d. observe neural activity as it reacts to sensory stimuli			
The	Spinal Cord			
253.	The cable of nerves that connects the brain to the rest of the body is called	64		
	the	C, d		
	a. caudate nucleus c. reticular formation	Old		
	b. substantia nigra d. spinal cord			
	4 yr.: 94% r = .23; 2 yr.: 92% r = .33			
254.	The spinal cord is made up of soft, jellylike bundles of long	64		
	a. axons c. ligaments	C, a		
	b. dendrites d. tendons	Old		
255.	The spinal cord containsmajor neural pathway(s). a. one c. three	64 E.b		
	a. one c. three b. two d. four	F, b Old		
		64		
256.	The spinal cord contains each of the following <b>EXCEPT</b>			
	<ul><li>a. endocrine glands to regulate hormonal functions</li><li>b. motor neurons that control internal organs and muscles</li></ul>	F, a Old		
	c. sensory neurons that carry information from the internal organs to the brain			
	d. neural circuits that produce reflex movements			
257.	When you pull your hand away rapidly after burning it on a hot pan, the sequence of	65		
	neural activation is	F, c Old		
	a. sensory neurons, motor neurons, interneurons			
	<ul><li>b. motor neurons, interneurons, sensory neurons</li><li>c. sensory neurons, interneurons, motor neurons</li></ul>			
	d. interneurons, sensory neurons, motor neurons			
258.	Allan gingerly puts his fingertips on the hot handle of the skillet in which he's cooking	65		
***	supper, but he instantly pulls his hand away. His reaction is due to the functioning of the	A, c Old		
	a. limbic system c. spinal cord			
	b. medulla d. hypothalamus			

### The Peripheral Nervous System

259.	The nervous system links the brain and spinal cord to the rest of the body.  a. central	66 F, c Old
260.	The peripheral nervous system is composed of neurons.  a. neither afferent nor efferent  b. afferent, but not efferent  c. efferent, but not afferent  d. both afferent and efferent	66 F, d Old
261.	The peripheral nervous system consists of  a. all the nerve cells that are not in the brain and spinal cord  b. the brain and the spinal cord  c. the spinal cord and autonomic system  d. the brain and the autonomic system  4 yr.: 67% r = .31	66 F, a Old
262.	Neurons that carry messages from the sense organs to the spinal cord or the brain are called neurons.  a. sensory	66 C, c Old
263.	Neurons that carry messages from the spinal cord or the brain to the muscles and glands are called neurons. a. sensory c. afferent b. inter- d. efferent	66 C, d Old
264. ***	A young woman returns from a day at the beach to find she has developed a severe sunburn. Which neurons are sending messages from her burned skin to her brain informing her of the pain from the burn?  a. afferent neurons  c. interaction neurons  b. efferent neurons  d. motor neurons	66 A, a Old
265. ***	Neurons that send messages from the spinal cord to the foot do so through neurons. a. afferent	66 F, c Old
266. ***	A young man reads in a letter that he has just won \$1,000 in a state-wide lottery and he literally jumps for joy. Which neurons are sending messages from his brain to the muscles in his legs causing him to jump?  a. afferent neurons  c. interactive neurons  b. efferent neurons  d. sensory neurons	66 A, b Old
267. ***	The peripheral nervous system consists of the and the nervous systems.  a. somatic; autonomic	66 F, a Old

268.	The somatic and autonomic nervous systems are two major divisions of the nervous system.				
	<ul><li>a. peripheral</li><li>b. parasympathetic</li></ul>	c. d.	sympathetic central	Old	
	4 yr.: 73% r = .48				
269. ***	All the things that we can sense (and pressure) have their origins i			66 A, b	
	a. autonomic	с.		Old	
	b. peripheral	d.	secondary		
270.	•	-	laling a bike to scratching a toe, involves	66	
	neurons in the nervous sy			F, c	
	a. sympathetic	C.		Old	
	b. parasympathetic	d.	secondary		
271.	The nervous system is constituted between your brain and all of the		f all the neurons that carry messages	66 F, d	
	a. central	C.	· ·	Old	
	b. secondary	d.		Old	
272.			meal or the unconscious regulation of your	66	
	breathing are all primarily rooted		•	F, a	
	a. autonomic	C.		Old	
	b. limbic	d.	secondary		
273.	The autonomic nervous system h	as two div		66	
***	<ul> <li>a. central and peripheral</li> </ul>	c.		F, c	
	b. receptors and effectors	d.	limbic and endocrine	Old	
	4 yr.: 79% r = .35				
274.	The branch of the autonomic ner action in an emergency is the		m that prepares the body for quick	67 C, c	
	a. central	divisi C.		Old	
	b. secondary		parasympathetic	Olu	
275.	The branch of the autonomic nervous system that calms and relaxes the body is the division.				
	a. central	c.	sympathetic	C, d Old	
	b. secondary	d.	· ·		
276. ***	You're walking all alone down a dark street when, suddenly, you hear a scream and then footsteps coming closer and closer. Your heart begins to pound, you're scared stiff, and you feel like running. Which part of the nervous system causes your body's reaction?				
	a. the midbrain	c.	the autonomic nervous system		
	b. the somatic nervous system	d.	the hippocampus		
	4 yr.: 72% r = .25				

211.	your room and your whole body reacts instantly. Your pupils dilate, your heart rate increases, your blood pressure rises, adrenaline surges through your body, and your senses sharpen as you begin anxiously looking for whatever caused the crash. These reactions are produced by the  a. central nervous system  c. sympathetic division  b. somatic nervous system  d. parasympathetic division	A, c Old
	4 yr.: 69% r = .31; 2 yr.: 83% r = .35	
278.	It's midnight and you are alone in your room studying. You hear a loud crash outside your room. Your body instantly reacts to this potential threat as you feel your heart pounding and your senses sharpening. Then you see your lumbering English sheep dog walking around the hallway corner and realize that the crash was undoubtedly from something he knocked over. Recovering from your alarm, your body now relaxes and you return to normal. The body system helping you to return to normal is the  a. somatic nervous system	67 A, d Old
279. ***	The deer waits motionlessly, hidden in the thicket as the band of hunters approaches. As they get closer, their dogs bark, picking up the scent of their prey. In a futile effort to escape, the deer bolts. Which of the following most accurately describes the nervous system of the hunted deer at this point?  a. Its sympathetic nerve fibers are more active than its parasympathetic nerve fibers.  b. Its parasympathetic nerve fibers are more active than its sympathetic nerve fibers.  c. Both its sympathetic and parasympathetic nerve fibers are equally active.  d. Neither its sympathetic nor its parasympathetic nerve fibers are aroused.	67 A, a Old
280.	<ul> <li>The heavy footsteps on the stairs get closer and closer. Slowly, the door to the bedroom creaks open. As a strange man with a knife in his hand lunges in, you let out an ear-piercing scream. Which of the following most accurately describes your nervous system at this point?</li> <li>a. Your sympathetic nervous system is more active than your parasympathetic nervous system.</li> <li>b. Your parasympathetic nervous system is more active than your sympathetic nervous system.</li> <li>c. Both your sympathetic and your parasympathetic nervous systems are extremely active.</li> <li>d. Neither your sympathetic nor your parasympathetic nervous systems are unusually active.</li> <li>4 yr.: 76% r = .36 4 yr.: 79% r = .48</li> </ul>	67 A, a Old
281.	Traditionally, been considered automatic. a. neither the sympathetic nor the parasympathetic division has b. the sympathetic division, but not the parasympathetic division, has c. the parasympathetic division, but not the sympathetic division, has d. both the sympathetic and the parasympathetic division have	67 F, d Old
282.	Studies in the 1960's and 1970's showed that humans and animals have control over the autonomic nervous system.  a. no	67 F, b Old

### The Endocrine System

283.	nervous system and the endocrine system	m, of one ne acti the ac	e another; one uses neurons, the other ivity of the hormonal system ctivity of the nervous system	68 F, d Old
284. ***	The system which coordinates and integ chemicals into the bloodstream is called a. somatic b. autonomic	the_ c.		68 C, d Old
285.	Chemical substances released by the end functions are a. enzymes b. neurotransmitters	c.	ne glands to help regulate bodily antigens hormones	68 C, d Old
286.	The messages in the nervous system are endocrine system are carried through a. ducts b. glands 4 yr.: 70% r = .25	c.		68 C, d Old
287.	•	<b>c.</b> 1	hormones enzymes	68 F, c Old
288. ***	a. lymph	c.	o the bloodstream are called glands. hippocampal endocrine	68 C, d Old
289.	The chemicals responsible for such thing rates of metabolism, sexual developmen and emotional balances in general are ca. neurotransmitters  b. hormones	nt, pre alled _ c. ;	paration for pregnancy and childbirth,	68 C, b Old
290. ***	Which of the following statements about a. Its messages stimulate only a limite b. It relays information through chemic. It communicates its messages at a st. It plays an important role in the body.	ed nur ical m slower	mber of cells at a time. nessengers called hormones. r speed than the nervous system.	68 F, a Old
	4 yr.: 67% r = .19 4 yr.: 68% r = .19 4 yr.: 65% r = .27			

291.	Which of the following does not belong biologically with the other four?				
***	a. pituitary c. pineal	C, b			
	b. thalamus d. adrenal cortex	Old			
	4 yr.: 80% r = .27				
292.	The endocrine gland that is often called the "master gland" because it affects the	68			
	output of the other endocrine glands is the gland. a. pituitary c. pineal	C, a Old			
	b. adrenal d. thyroid	Olu			
	o. adrena				
293.	The influences blood pressure, thirst, contractions of the uterus during	68			
	childbirth, milk production, sexual behavior and interest, and body growth.				
	a. pancreas c. thyroid gland	Old			
	b. pineal gland d. pituitary gland				
294.	The gland that produces the largest number of different hormones and has the wid				
	range of effects on the body's functions is the gland.	F, a			
	a. pituitary c. pineal b. adrenal d. thyroid	Old			
	o. adiciiai d. lilyfold				
	4 yr.: 61% r = .24; 2 yr.: 76% r = .23; 2 yr.: 79% r = .47				
295.	The pea-sized gland in the middle of the brain that helps regulate activity levels over the				
	course of a day is the gland. a. adrenal c. pineal	C, c Old			
	b. pituitary d. thyroid	O.G.			
296.	The hormone melatonin is produced by the gland.	68			
	a. pituitary c. thyroid	F, b			
	b. pineal d. adrenal	Old			
297.	The hormone released by the pineal gland that reduces body temperature and prepares				
	you for sleep is a. melatonin c. DHEA	C, a Old			
	b. parathormone d. HGH	Olu			
	o. paramonione u. 11011				
298.	The hormone that regulates the body's metabolic rate, affecting people's weight and energy levels, is				
	a. parathormone c. insulin	C, b Old			
	b. thyroxin d. glucagon				
	4 yr.: 88% r = .08				
299.	The endocrine gland located below the voice box that produces the hormone for				
	regulating the body's rate of metabolism is the gland.	C, c			
	a. pituitary c. thyroid	Old			
	b. adrenal d. parathyroid				
300.	Gloria's friends have recently noticed a startling change in her behavior. She eats				
***	everything in sight but gains little, if any, weight. She speeds around the room as if				
	she were taking amphetamines. She seems constantly tense and agitated, and has	Old			
	trouble sleeping. She has become impulsive and lately she seems to be upset by ex-	/en			
	the slightest stress. The source of Gloria's problems is probably an gland.  a. overactive pituitary c. overactive thyroid				
	b. underactive pituitary d. underactive thyroid				

301. ***	Andrew's friends have noticed that lately he sleeps constantly but is always tired and complains of feeling too hot or too cold. Although Andrew had formerly been very athletic, lately his muscle tone has been greatly reduced. The source of Andrew's					
	problem is probably an gland.					
	<ol> <li>a. overactive pituitary</li> </ol>	c.	overactive thyroid			
	b. underactive pituitary	d.	underactive thyroid			
	4 yr.: 98% r = .25; 2 yr.: 77% r =	= .23				
302.			s depression or "problems in living."	68		
	a. Pituitary		Pineal Panarastia	F, b		
	b. Thyroid	d.	Pancreatic	Old		
303.	The four tiny, pea-shaped glands that tissue fluids and levels of calcium and		te the hormone that controls and balances phate in the blood are the	68 C, c		
	a. adrenal glands	c.	parathyroid glands	Old		
	b. gonads	d.	lymph glands			
304.	The two hormones which keep the b	olood-su	ngar level properly balanced are	68		
	a. epinephrine and norepinephrine	c.	thyroxin and parathormone	F, b		
	b. insulin and glucagon	d.	growth hormone and ACTH	Old		
305.	Insulin and glucagon are secreted by	the	<del>.</del>	68		
	a. pituitary gland	c.	hypothalamus	F, d		
	b. adrenal gland	d.	pancreas	Old		
	2 yr.: 82% r = .31					
306.	The organ lying between the stomach and small intestine that secretes insulin and glucagon to regulate blood-sugar levels is the					
	a. adrenal gland	C.		C, c Old		
	b. kidney	d.	1	Old		
307.	Hypoglycemia results from secretion problems in the					
2071	a. liver		thyroid gland	68 F, b		
	b. pancreas		kidneys	Old		
308.	Oversecretion of insulin by the pancreas results in					
	a. cirrhosis	c.		68 F, d		
	b. diabetes	d.	hypoglycemia	Old		
309.	Undersecretion of insulin by the pancreas results in					
	a. cirrhosis	c.	_	F, b		
	b. diabetes	d.	hypoglycemia	Old		
310.	The endocrine glands located just above the kidneys that release hormones important for dealing with stress are the					
	a. gonads	c.		C, b Old		
	b. adrenal glands		pituitary glands			
	4 yr.: 82% r = .38; 2 yr.: 67% r =	= .29				
311.	The adrenal glands are important in	your bo	ody's reaction to	68		
	a. stress	c.	digestion	F, a		
	b. sleep	d.	pleasurable fantasy	Old		

312. ***	You begin to notice your heart pound	other ing, a	see a professor to whom you owe an you realize there is no graceful escape. cold sweat on your hands, and a knot in akes hold. Your reactions are <b>MOST</b> likely	68-69 A, b Old
	a. gonads	c.	thyroid gland	
	b. adrenal glands	d.	pituitary gland	
313.	Each adrenal gland has part(s	)		68
313.	a. one	). C.	three	F, b
	b. two	d.	four	Old
314.	The outer covering of the two adrenal for dealing with stress is the adrenal _			68 C, a
	a. cortex	c.		Old
	b. simplex	d.	ganglia	
315.	The inner core of the two adrenal glar dealing with stress is the adrenala. cortex b. simplex	 c.		68 C, c Old
316.			nervous system causing the heart to beat res to enlarge, and more sugar to flow into epinephrine norepinephrine	69 F, c Old
317.			ary gland to release hormones that prolong ain aroused for some time after extreme epinephrine norepinephrine	69 F, d Old
318.	The gonads are  a. secondary sexual characteristics b. the reproductive glands in males, c. the reproductive glands in female d. the reproductive glands in males	s, but	not in males	69 C, d Old
319.	Masculine sex hormones are calleda. endorphins b. androgens	c.	estrogens enkaphalins	69 C, b Old
320.	Feminine sex hormones are calleda. endorphins b. androgens	c. d.	estrogens enkaphalins	69 C, c Old
321.	The testes and the ovaries area. adrenal glands b. pineal glands	c. d.	thyroid glands gonads	69 C, d Old

322.	the fetus will develop as a male; otherw	÷	69 F, a
	a. testosterone	c. estrogen	Old
	b. progesterone	d. glucagon	
323.	has long been linked to aggress	sive behavior.	69
	a. Thyroxin	c. Melatonin	F, d
	b. Progesterone	d. Testosterone	Old
324.	Violence is greatest among males between	een the ages of	69
	a. 5 and 15	c. 25 and 35	F, b
	b. 15 and 25	d. 35 and 45	Old
325.	Recent research indicates that aggression	on is linked to	69
	a. thyroxin	c. estrogen	F, c
	b. parathormone	d. progesterone	Old
326.	Recent research suggest that estrogen is	s linked to aggression in .	69
	a. neither males nor females		F, d
	b. males but not females		New
327.	Waman's naufaumanas an aautain taata	of manual daytority, youhol skills, and	70
321.	Women's performance on certain tests of perceptual speed has been linked to lev		F, b
	a. progesterone	c. testosterone	Old
	b. estrogen	d. cortisone	
328.	Mon do bottor on toots of acquitive skil	le when their	70
326.	Men do better on tests of cognitive skil a. testosterone levels are high		F, a
	b. testosterone levels are low		Old
329.	Which of the following is true?		70
		married men with children all have	F, b
	similar levels of testosterone. b. Unmarried men have higher levels	of testesterone than married man	Old
		e higher levels of testosterone than unmarried	
	men or married men with children	ingher levels of testosterone than unmarried	
		gher levels of testosterone than unmarried men	
	or married men without children.		
330.	Of the following the males with the hig	ghest testosterone level is likely to be a(n)	70
550.	a. unmarried man	shest testosterone level is likely to be $u(n)$	F, a
	b. married man with no children		New
	c. married man who is a father-to-be		
	d. married man with young children		
331.	Of the following, the males with the lov	west testosterone level is likely to be a(n)	70
	a. unmarried man		F, d
	b. married man with no children		New
	c. married man who is a father-to-be		
	d. married man with young children		

## Genes, Evolution, and Behavior

332.	The study of the relationship between ha. evolutionary psychology b. psychobiology	c.	ity and behavior is behavior genetics psychoneuroendocrinology	71 C, c Old
333.	The subfield of psychology concerned of processes, their adaptive value, and the a. evolutionary psychology b. psychobiology	purp c.	oses they continue to serve is	71 C, a Old
334.	The study of how plants, animals, and pnext is called  a. heredity  b. trait theory	c.	e pass traits from one generation to the epidemiology genetics	71 C, d Old
335.	The basic elements of heredity that con a. genes b. chromosomes	trol t c. d.	cells	71 C, a Old
336.	Pairs of tiny threadlike bodies that contains.  a. riboplasts b. proteins		vesicles chromosomes	71 F, d Old
337.	Human beings have pairs of chra. 12 b. 17	c. d.	23	71 F, c Rev
338.	4 yr.: 95% r = .19; 2 yr.: 86% r = .3  At fertilization, the chromosomes from from the mother's egg, creating a new ca. embryo b. genome	the feell c		71 C, c Old
339.	A zygote contains chromosome a. 13 b. 23	es. c. d.	36 46	71 F, d Old
340.	The main ingredient found in chromoso a. plasma b. DNA		and genes is water RNA	71 F, b Old
341.	The complex molecule that forms the coa. DNA b. messenger RNA	ode f c. d.	For all genetic information is  RNA monoamine oxidase	71 C, a Old
342.	The only known molecule that can replia. DNA b. messenger RNA	icate c. d.		72 C, a Old

343.	A member of a gene pair that can control the appearance of a certain trait only if it is paired with another, similar type gene is a gene.  a. recessive c. mutated b. recombinant d. dominant	72 C, a Old
344.	A member of a gene pair that controls the appearance of a certain trait, no matter what other type of gene it is paired with is called a gene.  a. recessive c. mutated b. recombinant d. dominant	72 C, d Old
345.	Jessica's mother has blue eyes, with two recessive genes for blue eyes. Her father has brown eyes, with two dominant genes for brown eyes. What are the chances that Jessica has blue eyes?  a. 0 percent  b. 25 percent  c. 50 percent  d. 75 percent	72 A, a Old
346.	Jessica's mother has blue eyes, with two recessive genes for blue eyes. Her father has brown eyes, with a dominant gene for brown eyes and a recessive gene for blue eyes. What are the chances that Jessica has blue eyes?  a. 0 percent  b. 25 percent  c. 50 percent  d. 75 percent	72 A, c Old
347.	Jessica's mother has brown eyes, with a dominant gene for brown eyes and a recessive gene for blue eyes. Her father also has brown eyes, with a dominant gene for brown eyes and a recessive gene for blue eyes. What are the chances that Jessica has blue eyes?  a. 0 percent  c. 50 percent  b. 25 percent  d. 75 percent	72 A, b Old
348.	Jessica's mother has brown eyes, with a dominant gene for brown eyes and a recessive gene for blue eyes. Her father also has brown eyes, with a dominant gene for brown eyes and a recessive gene for blue eyes. What are the chances that Jessica has brown eyes?  a. 0 percent  c. 50 percent  d. 75 percent	72 A, d Old
349.	In England in the last half of the 19 <sup>th</sup> century, an individual appeared who became known as the porcupine man because of the strange warty projections on his skin. In spite of this problem, he married a normal woman and fathered six children, all of whom had the same warty projections on their skin. Of his grandchildren, some appeared normal and others had the deformity. Which of the following is the <b>LEAST</b> reasonable conclusion that can be drawn from this information?  a. Porcupine skin is dominant over normal skin.  b. Porcupine skin is recessive to normal skin.  c. The porcupine man's children carried genes for normalcy.  d. The porcupine man's grandchildren could produce normal offspring.	A, b Old
350.	The life of Joseph (John) Merrick, the Elephant Man, has been publicized on stage and in film. Suppose that Merrick's deformity could be traced to a single pair of genes (which is unlikely) and that he married a normal woman. If all their children appeared normal, which of the following would be the <b>LEAST</b> reasonable conclusion that we could draw?  a. The elephant deformity is dominant over normalcy.  b. Normalcy is dominant over the elephant deformity.  c. Their grandchildren could carry the gene for the elephant deformity.  d. Their grandchildren could carry the gene for normal appearance.	72 A, a Old

351.	A process that controls our most important traits in which many genes interact to produce a certain specific trait is called  a. genetic dominance c. monogenetic inheritance b. polygenic inheritance d. natural selection	73 C, b Old
352. ***	In many important psychological characteristics, a number of genes make a small contribution to the trait in question. This process is known as  a. genetic dominance	73 C, b Old
353.	An organism's entire unique genetic makeup is called its  a. phenotype c. genotype  b. polygenic inheritance d. genetic imprint	73 C, c New
354.	The outward expression of a trait is known as its a. phenotype c. genotype b. polygenic inheritance d. genetic imprint	73 C, a New
355.	The characteristics of an organism, determined by both genetics and experience are collectively known as  a. phenotype	73 C, a New
356.	The sum total of all genes within a human cell is  a. polygenetic inheritance c. homogenetic inheritance b. the human phenotype d. the human genome	73 C, d Rev
357.	The term that refers to the full complement of an organism's genetic material is  a. gender	73 C, b Old
358.	Experts believe that the average variation in the human genetic code for any two people ispercent.  a. less than 1	73 F, a Old
359.	The human genome contains about genes. a. 20,000 to 25,000	73 F, a Rev
360.	Humans share about percent of their genes with chimpanzees. a. 38.7 c. 78.7 b. 58.7 d. 98.7	74 F, d New
Beha	vior Genetics	
361. ***	<ul> <li>The central concern of behavior genetics is to</li> <li>a. determine how experience affects genes that are then passed on to the next generation</li> <li>b. study the process of natural selection</li> <li>c. determine the influence of heredity on behavior</li> <li>d. control behavior through genetic manipulation</li> </ul>	74 F, c Old

362.	<ul> <li>Which of the following statements is NOT true?</li> <li>a. Genes can directly cause behavior in some cases of drug abuse and eating disorders.</li> <li>b. Genes affect the development and operation of the nervous system.</li> <li>c. Genes affect the development and operation of the endocrine system.</li> <li>d. Genes influence the likelihood that certain behaviors will occur under certain circumstances.</li> </ul>	74-75 F, a Old	
363.	The degree to which variations in a trait can be attributed to genetic factors is called .	75 C, d	
	<ul><li>a. polygenetic inheritance</li><li>b. genetic dominance</li><li>c. the Law of Parsimony</li><li>d. heritability</li></ul>	Old	
364. ***	Intensive inbreeding of animals over many generations in order to create a group of animals that are genetically very similar to one another and different from other groups of animals is called study.  a. selection	75 F, b Old	
365. ***	Strain studies involve a. adopting children with similar traits b. a single generation of animals c. breeding animals which have a trait with other animals that share that trait d. inbreeding of close relatives of animals over several generations	75 C, d Rev	
	4 yr.: 40% r = .16		
366.	Studies that estimate the heritability of a trait by breeding animals with other animals that have the same trait are called studies.  a. selection	75 F, a Old	
367.	Scientists studying behavior genetics in humans commonly use which of the following types of studies for their research on people?  a. Twin studies, but not family, selection, or strain studies.  b. Twin and family studies, but not selection or strain studies.  c. Twin, family, and selection studies, but not strain studies.  d. Twin, family, selection, and strain studies.	75-76 F, b Old	
368.	Studies of heritability in humans that assume that if genes influence a certain trait, close relatives should be more similar with that trait than distant relatives are called studies.  a. family b. twin c. strain d. selection	76 C, a Old	
369.	Each of the following is true of family study research designs in behavior genetics <b>EXCEPT</b> they  a. make it possible to rule out the role of the environment  b. are designed for human research  c. assume a greater similarity of a trait among close relatives as opposed to distant relatives  d. suggest a role for heredity in schizophrenia	76 C, a Old	

370. ***	Which of the following types of studies is least effective in ruling out environmental effects in the development of traits?					
	a. strain studies	c.	twin studies	F, d Old		
	b. selection studies	d.	family studies	Old		
	4 yr.: 44% r = .30					
371.			udying human behavior genetics is	76		
***	a. selective breeding		selection studies	F, d		
	b. strain studies	d.	twin studies	Old		
	4 yr.: 58% r = .32					
372.	Which of the following have the MC			76		
***	a. fraternal twins		identical twins	F, c		
	b. siblings	d.	cousins	Old		
	4 yr.: 92% r = .33; 2 yr.: 92% r =	: .35				
373.			lly than are other brothers and sisters.	76		
	a. much more	c.		F, c		
27.4	b. slightly more	d.	much less	Old		
374.		e tertiii	ized ova and are therefore different in	76		
	genetic make-up are twins. a. identical	0	Siamese	C, b Old		
	b. fraternal	c. d.	symbiotic	Olu		
375.	Twins that develop from a single fertilized ovum are twins.					
	a. identical	c.		C, a		
	b. fraternal	d.	symbiotic	Old		
376. ***	Children of schizophrenics are about other children.	-	_ times more likely to be schizophrenic than	76 F, b		
	a. 5	c.	15	Rev		
	b. 10	d.	20			
377. ***	Siblings of schizophrenics are about other children.		_ times more likely to be schizophrenic than	76 F, d		
	a. two	c.	six	Rev		
	b. four	d.	eight			
378. ***	Todd's identical twin brother is schizophrenic. The odds are one out of that he, too, will be schizophrenic.					
	a. two	c.	six	F, a Old		
	b. four	d.	eight			
	4 yr.: 64% r = .22					
379.	Todd's fraternal twin brother is schiz will be schizophrenic.	zophren	nic. The odds are percent that he, too,	76 F, a		
	a. 15	c.	50	Old		
	b. 25	d.	100	314		

380. ***	Sociologists studying several generations of a family named "Jukes" found an unusually high frequency of criminality and degeneracy. The <b>MOST</b> reasonable conclusion that can be drawn from these data is that							
	a. once antisocial behavior appears in more than one generation of a family, it is never totally eliminated							
	b. antisocial behavior is probably	due prir	narily to genetic factors					
	c. antisocial behavior is probably							
	d. antisocial behavior is probably factors.	due to a	combination of genetic and environmental					
	4 yr.: 81% r = .10							
381.	them, to determine the relative influ- behavior are called studies.	ience of	opted at birth by parents not related to heredity and environment on human	77 C, a Old				
	a. adoption	c.	selection					
	b. strain	d.	case					
382.	One process by which physicians ca genetic abnormalities (defects) is ca a. immunotherapy			77 F, b Old				
	b. amniocentesis							
	c. ultrasound							
	d. positron emission tomography	scanning	g					
202	4 yr.: 88% $r = .24$ A procedure in which cells are collected from the membranes surrounding the fetus,							
383.	then are tested for genetic abnorma			77 C, c				
	a. amniocentesis	c.		Old				
	b. ultrasound	d.	ž	Olu				
384.	A procedure in which some of the cells that the fetus casts off into the fluid surrounding							
			chromosomal or genetic defects is	C, a				
	<ul><li>a. amniocentesis</li><li>b. ultrasound</li></ul>	c. d.	chorionic villus sampling intra-uterine probe testing	Old				
385.	Prenatal screening techniques such as amniocentesis detect genetic problems in percent of pregnancies.							
	a. less than 1	c.	about 5	F, b Rev				
	b. about 2	d.	about 10	Rev				
Evol	utionary Psychology							
386.			theory of evolution stating that organisms	78 F, d				
	characteristics to their offspring, is	best adapted to their environment tend to survive and transmit their genetic characteristics to their offspring, is called						
	a. behavior genetics	c.						
	b. random adaptation	d.	natural selection					
387.	The scientist who proposed the medevolution was	chanism	of natural selection to explain the process of	78 F, c				
	a. Freud	c.	Darwin	New				
	b. Pasteur	d.	Watson					

388.	From an evolutionary perspective, for mate selection in humans, it is most advantageous for  a. both males and females to seek one mate for life	79 F, c Old
	<ul> <li>b. males to seek one long-term mate but for females to seek as many mates as possible</li> <li>c. females to seek one long-term mate but for males to seek as many mates as possible</li> <li>d. both males and females to seek as many mates as possible</li> </ul>	
389.	<ul> <li>Each of the following is a current criticism of evolutionary psychology EXCEPT</li> <li>a. it lacks the basic scientific methodology to properly study any of its claims</li> <li>b. it too hastily explains behaviors from an evolutionary perspective rather than investigating other origins for them</li> </ul>	79 F, a Old
	<ul><li>c. it uses science to justify perpetuating unjust social policies</li><li>d. by saying a trait is adaptive, it implies that the trait is good</li></ul>	
Box:	Applying Psychology: Drugs and Behavior	
390.	The toxin produced by the micro-organism that causes botulism prevents the release of	50 F, a
	<ul><li>a. acetylcholine</li><li>b. dopamine</li><li>c. serotonin</li><li>d. endorphins</li></ul>	Old
391.	Curare, a poison, works by	50
	<ul><li>a. blocking receptor sites</li><li>b. speeding up the release of neurotransmitters into the synaptic space</li></ul>	C, a Old
	<ul><li>c. inhibiting the production of excitory neurotransmitters</li><li>d. inhibiting the production of inhibitory neurotransmitters</li></ul>	
392.	Curare, a poison, works by blocking receptor sites for	50
	<ul><li>a. acetylcholine</li><li>b. dopamine</li><li>c. serotonin</li><li>d. endorphins</li></ul>	F, a New
393.	Antipsychotic medications help reduce schizophrenic hallucinations by  a. stimulating the release of dopamine b. helping dopamine bind to receptor sites c. preventing the release of dopamine d. preventing dopamine from binding to receptor sites	50 F, d Rev
394.	The poison of the black widow spider works by causing an outpouring of	50
	<ul><li>a. dopamine</li><li>b. serotonin</li><li>c. endorphins</li><li>d. acetylcholine</li></ul>	F, d Old
	·	
395.	Caffeine arouses people by blocking the receptors for  a. norepinephrine c. acetylcholine	50 F, b
	b. adenosine d. thyroxin	Old
396. ***	After drinking several cups of strong coffee, a person develops "coffee nerves" or "jitters." This probably is due to the ability of caffeine to  a. block adenosine receptor sites b. inhibit enzymes which break down excitatory neurotransmitters c. cause an increase in the release of excitatory neurotransmitters d. cause neurotransmitters to leak out of the synaptic vesicles and be destroyed by enzymes	50 A, a Old

397.	Despite its dangers, a young man continues to take cocaine because of the feelings of euphoria it produces for him. This powerful arousal of his nervous system is probably due to cocaine's ability to  a. inhibit enzymes that break down neurotransmitters  b. increase the release of neurotransmitters  c. block the receptor sites for neurotransmitters  d. prevent neurotransmitters from being reabsorbed into the synaptic vesicles			
Box:	On the Cutting Edge: Mirror Neurons: Seeing Ourselve	s in	Oti	hers
398.	At a movie theater, during a scary scene in which a male hero is preparing to de himself from a monster, Juan finds his own legs and arms tensing up, as if he we to have to defend himself from the monster. His behavior is most likely due to a. an overactive imagination  b. the fact that humans have specialized neurons that cause us to mimic what doing  c. the fact that young males tend to overempathize with male heroes in action d. scary scenes make almost everyone tense their arms and legs, no matter what actually occurring on the screen	other	 rs are	75 A, b New
399.	Neurons that cause us to mimic the actions of others are known as neural	ons.		75 C, d New
400. b.	Mirror neurons have been found  a. only lower life forms, such as invertebrates only in lower mammals, but not humans or primates c. in almost all animals except for humans d. in humans and primates			75 F, d New
401.	Mirror neurons are especially prevalent in  a. canines			75 F, d New
402.	Research shows that in humans, mirror neurons allow people to mimic a. both the actions nor the emotions of others b. the actions but not the emotions of others c. the emotions but not the actions of others d. neither the actions nor the emotions of others			75 F, a New
True	-False Questions			
403.	There are as many as 100 billion neurons in the brain of an average human being.	T	F	44, F T
404.	The short fibers branching out from the cell body of a neuron are called axons.	T	F	44, F F
405.	An axon is very thick and usually much shorter than dendrites.	Т	F	44, F F
406.	The axon carries outgoing messages from the cell body.	Т	F	44, F T

407.	The axon of a neuron is often surrounded by a fatty covering called the myelin sheath.	T	F	44, F T
408.	Electrically charged particles that are present inside and outside the neuron are called graded potentials.	T	F	46, F F
409.	The breakdown of the neural cell wall which allows sodium ions to enter the cell can result in an action potential.	T	F	46, F T
410.	Neural impulses vary in strength according to the strength of the incoming signal to the neuron.	T	F	47, F F
411.	The neuron cannot fire during the absolute refractory period.	T	F	47, F T
412.	The neuron cannot fire during the relative refractory period.	T	F	47, F F
413.	The tiny gap between the synaptic knob and the next neuron is called the synapse.	T	F	47, F F
414.	A neural impulse causes the synaptic vesicles to release chemicals called neurotransmitters.	T	F	48, F T
415.	Neurotransmitters always stimulate or excite the next neuron.	T	F	48, F F
416.	Endorphins appear to increase sensitivity to pain.	T	F	49, F F
417.	Schizophrenia seems to be associated with an overabundance of dopamine.	T	F	49, F T
418.	Adult brains are not capable of neurogenesis.	T	F	52, F F
419.	Every part of the nervous system is connected to every other part.	T	F	53, F T
420.	The nervous system is usually divided into two major parts: the central nervous system and the parasympathetic nervous system.	T	F	53, F F
421.	The central nervous system carries messages to and from the brain.	T	F	53, F F
422.	Breathing, heart rate, and blood pressure are controlled by the medulla.	T	F	54, F T
423.	The reticular formation is located only in the hindbrain.	T	F	56, F F
424.	The oldest and most primitive of the brain's structures are the cerebral hemispheres.	T	F	56, F F

425.	The largest of the association areas, accounting for about half the volume of the cerebral cortex, is the frontal lobe.	T	F	56, F T
426.	Phineas Gage suffered personality changes as a result of damage to his temporal lobes.	T	F	57, F F
427.	The limbic system is important to motivation.	T	F	58, F T
428.	The ribbon-like band that connects the two hemispheres of the brain is called the corpus callosum.	T	F	58, F T
429.	The two cerebral hemispheres are not really equivalent in their functions.	T	F	58, F T
430.	The hemisphere of the brain most dominant in verbal tasks is the right hemisphere.	T	F	60, F F
431.	Even left-handers tend to have their language functions controlled by the left hemisphere of the brain.	T	F	60, F T
432.	Differences between hemispheres are greater in women than in men.	T	F	60, F F
433.	Broca's area is important in listening and Wernicke's area is important in talking.	T	F	61, F F
434.	Both CT scanning and MRI provide pictures of brain activity.	T	F	62, F F
435.	The brains of people with higher IQ scores are less active than those of people with lower IQ scores.	T	F	63, F T
436.	The complex cable of nerves that connects the brain to the rest of the body is the spinal cord.	T	F	64, F T
437.	Afferent neurons carry messages from the central nervous system.	T	F	66, F T
438.	The somatic nervous system contains two branches: the sympathetic and the parasympathetic divisions.	T	F	66, F F
439.	The sympathetic division carries messages to the body which tell it to prepare for an emergency.	T	F	67, F T
440.	You cannot gain conscious control over functions normally controlled by the autonomic nervous system.	T	F	67, F F
441.	Chemical substances called hormones are released into your bloodstream by the endocrine glands.	T	F	68, F T
442.	The thyroid gland helps to regulate your body's metabolism.	T	F	68, F T
443.	The two hormones secreted by the pancreas are insulin and adrenaline.	T	F	68, F F

444.	The adrenal glands play an important role in the body's reactions to stress.	Т	F	68, F T
445.	Estrogen has been linked to aggressive behavior in both males and females.	Т	F	69, F T
446.	Unmarried men have lower testosterone levels than married men.	Т	F	70, F F
447.	The main ingredient of genes and chromosomes is glucagon.	Т	F	71, F F
448.	A number of genes making a small contribution to a trait is known as mixed dominance.	Т	F	73, F F
449.	The effects of genetics are not always immediate or fully apparent.	Т	F	73, F T
450.	Genes can directly cause human behavior.	Т	F	74, F F
451.	Strain studies involve intensive inbreeding of close relatives among animals.	Т	F	75, F T
452.	For ethical reasons, only strain and selection studies can be used to explore human genetics.	Т	F	75, F F
453.	Family studies are usually based on families with identical twins.	Т	F	76, F F
454.	Science is simply a process that takes place in a laboratory.	Т	F	77, F F
455.	Amniocentesis is a technique for detecting genetic defects in unborn children.	Т	F	77, F T
456.	Evolutionary psychologists are especially interested in social behaviors.	Т	F	78, F T
Essa	y Questions			
457. ***	Define neuron, axon, dendrite, cell body, and myelin sheath. In your definitions, be sure to describe the specific functions of each item.			44-45 C, Old
458. ***	Describe the process by which a neuron moves from a resting state to firing and then back to a resting state.			46-47 F, Old
459. ***	Explain the process of how a neural message is transmitted from the end of one neuron to the beginning of another. In your explanation, identify at least two neurotransmitters and describe their functions.			47-48 F, Old
460.	Specifically describe the effects of the neurotransmitters acetylcholine, dopamin serotonin, norepinephrine, and endorphins.	e,		48-49 F, Old

461.	Specifically discuss how cocaine, curare, caffeine, opiates, and botulism block or disrupt neural communication.	50 F, Old
462.	Explain what plasticity and neurogenesis are. Briefly summarize the research regarding stem cells and the possibility of growing new neurons in the human brain.	49-52 C, Old
463. ***	Describe the location and functioning of the medulla, cerebellum, thalamus, hypothalamus, and cerebral cortex.	54-57 F, Old
464. ***	Describe the functions of the frontal lobe, temporal lobe, occipital lobe, and parietal lobe. Also, briefly discuss the case of Phineas Gage in terms of which areas of his brain were damaged and the effects of that damage.	53-54 F, Old
465.	Briefly describe the functions of the reticular formation and the limbic system. Explain what problems can result from damage or destruction of these areas.	56, 58 F, Old
466. ***	Compare and contrast the functions of the left and right hemispheres of the cerebral cortex. What role does the corpus callosum play in this functioning? Finally, what were the reasons for, and results of, split-brain operations?	58-61 F, Old
467.	Discuss how the brain controls language in humans, identifying the key structures involved in language processing and describing the effects of damage to these areas.	60-61 F, Old
468.	Summarize research findings about left-handedness and its causes.	61 F, New
469.	Briefly discuss the purposes of and describe the procedure for studying the brain within each of the following general areas: microelectrode techniques, macroelectrode techniques, structural imaging, functional imaging.	62-64 C, Old
470.	Describe the functions of the spinal cord and explain how it works with the brain to sense events and act on them.	64-65 F, Old
471.	Compare and contrast the functions of the autonomic nervous system and the somatic nervous system.	66-67 F, Old
472. ***	Compare and contrast the functions of the sympathetic and parasympathetic nervous system. What does the current scientific evidence indicate in regard to one's ability to consciously control functions normally controlled by the autonomic nervous system?	67 F, Old
473.	Describe the basic functions of the endocrine system, including the specific functions functions of the thyroid gland, pancreas, pituitary gland, gonads, and adrenal glands.	68-70 F, Old
474.	Define genes, chromosomes, and DNA and describe their role in the genetic transmission of traits.	71-72 C, Old
475.	Explain how dominant and recessive genes might influence the eye color of a child born to parents where the father has blue eyes and the mother has brown eyes. What color eyes are the grandchildren likely to have if the child marries a blue-eyed person? Why?	72-73 A, Old
476.	Explain what the human genome is, how many genes humans have, and discuss the social implications of research in this area.	73-74 F, New

477.	Compare and contrast strain studies and selection studies. Why are they used and what has been learned from them? What are the limitations to these techniques?	75 C, Old
478.	Define and describe the uses for and limitations of family studies, twin studies, and adoption studies. What has been learned from these studies about the role of heredity in shaping human personality?	76-77 C, Old
479.	Explain what evolutionary psychology is and identify the types of human behaviors evolutionary psychologists are interested in. Also, briefly discuss the criticisms of evolutionary psychology and how evolutionary psychologists respond to those criticisms.	78-79 C, Old