Adult Development and Aging 7th Edition Cavanaugh Test Bank

1. In grocery stores and on television there is a trend toward marketing "brain foods" to the general public. These "brain foods" contain ______, which protect your cells from free radicals.

a. antioxidants

- b. omega-3 fats
- c. B vitamins
- d. hormone replacements

ANSWER:	a
REFERENCES:	Introduction
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.13 - How does nutrition influence brain changes and cognitive activity?
KEYWORDS:	Factual

- 2. Neuroimaging has allowed us to
 - a. solve the nature-nuture controversy.
 - b. identify the causes of Alzheimer's disease.
 - c. see inside the brain of a living person to examine the structures of the brain.
 - d. examine one's genetic structure and predict which individuals will develop chronic diseases with age.

ANSWER:cREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Conceptual

- 3. The field of neuroscience can be defined as
 - a. the study of free radicals.
 - b. the study of the compensatory changes that older adults make in adapting to behavioral decline.
 - c. the use of stem cells to generate new neurons.
 - d. the study of the brain, particularly the study of plasticity in the aging brain.

ANSWER:	d
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Factual

- 4. Which field of science has revolutionized our understanding of the relationships between the brain and behavior?
 - a. psychoanalytic theory b. social cognitive theory

c. neuroscience	d. molecular anatomy
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ANSWER:cREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Factual

- 5. Which of the following is associated with neuroscience?
 - a. brain structures and functioning
 - b. the effect of reinforcements, such as rewards and punishments, on behavior
 - c. repressed impulses and their effect on the id, ego, and superego

d. the theory of the mind

ANSWER:	a
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Factual

- 6. Neuroimaging has allowed us to
 - a. determine what a healthy brain looks like.
 - b. see exactly how the brain changes over time.
 - c. determine which brain changes are normative and which are not.
 - d. understand that neuroimaging must be used carefully and ethically as we are still figuring out (a) what is normal and what is not and (b) what a "healthy" brain looks like.

ANSWER:dREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Conceptual

- 7. The two neuroimaging techniques that are most often used provide
 - a. detailed images of the anatomical features of the brain and indications of brain activity.
 - b. measurements of the diffusion of water molecules in brain tissue.
 - c. measures of heart beat and respiration changes in older adults.
 - d. evidence of the positivity effect.

ANSWER:aREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Factual

- 8. X-rays, CT scans, and MRIs are examples of
 - a. genetic imaging.
 - b. nonnormative brain development.
 - c. structural neuroimaging.
 - d. functional neuroimaging.

ANSWER:	c
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Factual

- 9. Magnetic resonance imaging (MRI) produces
 - a. pictures that represent brain activity as different colors.
 - b. images of brain activity with low anatomical detail.
 - c. pictures of healthy brain functioning but not of pathological brain functioning.
 - d. highly detailed images of the anatomical structures of the brain.

	ANSWER:	d	
	REFERENCES:	The Neuroscience Approach	
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?	
	KEYWORDS:	Factual	
10	0. Structural neuroimaging focuses on the of the brain.		

c. development d. function

ANSWER:bREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Factual

- 11. Functional imaging techniques focus on the _____ of the brain.
 - a. structure b. anatomical features

c. activity d. blood flow

ANSWER:cREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Factual

- 12. SPECT and PET are examples of
 - a. structural neuroimaging techniques.
 - b. functional neuroimaging techniques.
 - c. Alzheimer's assessments.

d. behavioral tests that assess frontal lobe atrophy.

ANSWER:bREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Factual

- 13. Which approach compares the brain functioning of healthy older adults with adults displaying various pathological disorders of the brain?
 - a. neurobiological b. bioneurosocial
 - c. psychological d. neuropsychological

ANSWER:dREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Factual

14. Which of the following approaches attempts to link measures of cognitive performance to measures of brain functioning?

neurobiosocial
a
The Neuroscience Approach
ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
Conceptual

- 15. Why are the results from neurocorrelational studies considered speculative?
 - a. because random sampling is not used

a. neurocorrelational

b. because the measures used in these types of studies lack validity

b. psychological

- c. because we cannot be certain that the behavioral tests accurately assess the actual anatomical and functional activity of the brain region under investigation
- d. because correlational findings are more speculative than those acquired from experimental designs

ANSWER:cREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Conceptual

- 16. Which approach attempts to directly link functional brain activity with cognitive behavioral data?
 - a. neurobiological b. correlational
 - c. activation imaging d. psychological

ANSWER:cREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Factual

- 17. _____ changes allow older adults to adapt to the inevitable decline of specific areas of the brain.
 - a. Compensatory b. Personality
 - c. Compromise d. Collaboration

ANSWER:aREFERENCES:The Neuroscience ApproachLEARNING OBJECTIVES:ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?KEYWORDS:Factual

18. Neuroscience has brought an important perspective to studying cognitive aging. Specifically, it has

a. allowed us to find a cure for Alzheimer's disease.

- b. given us ways to test our theories of brain-behavior relations.
- c. showed us how to reverse cognitive decline in elderly individuals.

d. given us ways to eliminate free radicals.

ANSWER:	b
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Conceptual

19. Research methods that focus on understanding age-related changes in the brain can help explain why certain ______ functions are preserved.

a. cognitive	b. mus	cle
c. physical health	d. sens	ory
ANSWER:		a
REFERENCES:		The Neuroscience Approach
LEARNING OBJECT	TVES:	ADaA.CAVA.15.02.02 - What are the main research methods used and issues studied in neuroscience research in adult development and aging?
KEYWORDS:		Factual

20. Research methods that focus on age-related changes in the brain allow us to better understand why certain cognitive functions, such as well-practiced tasks, vocabulary, and wisdom, can be ______ in old age.

a. lost	b. preserved
c. altered	d. distorted

	ANSWER:	b
	REFERENCES:	The Neuroscience Approach
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.02 - What are the main research methods used and issues studied in neuroscience research in adult development and aging?
	KEYWORDS:	Conceptual
21.	Processing speed	_ as people age.
	a. increases b. d	ecreases
	c. becomes distorted d. re	emains the same
	ANSWER:	b
	REFERENCES:	The Neuroscience Approach
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.02 - What are the main research methods used and issues studied in neuroscience research in adult development and aging?
	KEYWORDS:	Factual

22. In the past, much research real a. psychosocial b. behavi	egarding adult development and aging was based upon data.	
c. social d. neuroin	maging	
ANSWER:	b	
REFERENCES:	The Neuroscience Approach	
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.02 - What are the main research methods used and issues studied in neuroscience research in adult development and aging?	
KEYWORDS:	Conceptual	
23. Neuroscientific methods have that are among the first affect a. recognizing faces	ve shown that brain activity involved in occurs in areas of the brain cted by Alzheimer's disease.	
b. remembering items on a li	st	
c. emotion regulation		
d. executive functioning activ	vities such as planning	
ANSWER:	a	
REFERENCES:	The Neuroscience Approach	
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.02 - What are the main research methods used and issues studied in neuroscience research in adult development and aging?	
KEYWORDS:	Conceptual	
24. Key structural, or anatomical, features of the neuron include all the following except a. axons.b. dendrites.c. terminal branches.d. synapses.		
ANSWER:	d	
REFERENCES:	Neuroscience and Adult Development and Aging	
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03 - How is the brain organized structurally?	
KEYWORDS:	Factual	
25. Most neuroscience research	has focused on the	
a. right axon. b. bra	in stem.	
c. cerebral cortex. d. foc	al area.	
ANSWER:	c	
REFERENCES:	The Neuroscience Approach	
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03 - How is the brain organized structurally?	
KEYWORDS:	Factual	

26.	The are in plans, switch between tasks, a. cerebellum and hippocamp c. hippocampus and limbic sy	 wolved in higher-order executive functions such as the ability to make and carry out and maintain attention and focus. b. prefrontal and frontal cortex d. cerebellum and amygdala 			
	ANSWER: REFERENCES: LEARNING OBJECTIVES: KEYWORDS:	b Neuroscience and Adult Development and Aging ADaA.CAVA.15.02.03 - How is the brain organized structurally? Conceptual			
27.	Overall, there is considerable prefrontal cortex, the a. frontal lobe; left cortex c. cerebellum; amygdale	 shrinkage that occurs in the aging brain. However, the shrinkage is selective. The, and the all show profound shrinkage. b. parietal; occipital d. hippocampus; cerebellum 			
	ANSWER: REFERENCES: LEARNING OBJECTIVES: KEYWORDS:	d Neuroscience and Adult Development and Aging ADaA.CAVA.15.02.03 - How is the brain organized structurally? Factual			
28.	The areas of the brain related to sensory functions, such as the visual cortex, show relatively littlea. shrinkage.b. improvement across the life span.c. white matter.d. intensity.				
	ANSWER: REFERENCES: LEARNING OBJECTIVES: KEYWORDS:	a Neuroscience and Adult Development and Aging ADaA.CAVA.15.02.03 - How is the brain organized structurally? Conceptual			
29.	The white matter area of the assesses the rate a. fMRI b. white matter c. CT scan d. diffusion te	brain shows deterioration with increasing age. A neuroimaging method called and direction that water diffuses through the white matter. er hyperintensities nsor imaging			
	ANSWER: REFERENCES: LEARNING OBJECTIVES: KEYWORDS:	d Neuroscience and Adult Development and Aging ADaA.CAVA.15.02.03 - How is the brain organized structurally? Factual			
30.	White matter hyperintensities a. extremely high intelligence c. brain pathologies such as r	 WMH) may indicate b. predisposition to Alzheimer's disease. neural atrophy. d. emotional pathology. 			
	ANSWER: REFERENCES: LEARNING OBJECTIVES: KEYWORDS:	c Neuroscience and Adult Development and Aging ADaA.CAVA.15.02.03 - How is the brain organized structurally? Conceptual			

31	White matter hyperintensitie treated with	s (WMH) are linked to ce	prebrovascular diseases, which are preventable and can be
	a. surgery and medications.		b. medications and lifestyle changes.
	c. cognitive behavioral therap	py and changes in diet.	d. hypnosis and lifestyle changes.
	ANSWER:	b	
	REFERENCES:	Neuroscience and Adult	Development and Aging
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03	- How is the brain organized structurally?
	KEYWORDS:	Conceptual	
32.	functionone moment in time and the aa. Executiveb. Cognic. Psychologicald. Conservation	ning includes processes s ability to focus on relevant tive cious	uch as the ability to control what one is thinking about at any information and eliminate irrelevant information.
	ANSWER:	а	
	REFERENCES:	Neuroscience and Adult	Development and Aging
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03	- How is the brain organized structurally?
	KEYWORDS:	Factual	
33. Executive functioning failures in older adults can be seen when older adultsa. have difficulty factoring out false information in an article they are reading.			
	b. have trouble recognizing fa	amiliar faces.	
c. have problems maintaining their balance and coordination.			
	d. experience visual difficulti	es such as distinguishing o	certain colors and reduced hight vision.
	ANSWER:	a	
	REFERENCES:	Neuroscience and Adult	Development and Aging
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03	- How is the brain organized structurally?
	KEYWORDS:	Applied	
34	For adult development and ag a. prefrontal and frontal corte b. corpus callosum and cereb c. corpus callosum and fronta d. amygdala and hippocampu	ging research, the most in ex. rellum. al cortex. 1s.	nportant elements of the limbic system are the
	ANSWER:	d	

REFERENCES:Neuroscience and Adult Development and AgingLEARNING OBJECTIVES:ADaA.CAVA.15.02.03 - How is the brain organized structurally?KEYWORDS:Factual

35.	Reductions in thea. volumeb. den	of the hippocampus are related to memory decline.			
	c. dendritic tangles d. neu	rotransmitters			
	ANSWER: REFERENCES: LEARNING OBJECTIVES: KEYWORDS:	a Neuroscience and Adult Development and Aging ADaA.CAVA.15.02.03 - How is the brain organized structurally? Factual			
36.	What are the age-related cha a. There are no age-related c b. The number of neurons in c. Tangles develop in the fib d. The number of connection	nges in neurons? hanges in neurons, but there are changes in neurotransmitters. creases. ers that make up the axon. as between neurons, measured as synapses, increases after age 75.			
	ANSWER: REFERENCES: LEARNING OBJECTIVES: KEYWORDS:	c Neuroscience and Adult Development and Aging ADaA.CAVA.15.02.03 - How is the brain organized structurally? Factual			
37.	Research finding correlations between temporal lobe atrophy and cognitive declines in old age have led researchersto wonder if Alzheimer's diseasea. is inevitable for all humans.b. is an acceleration of the normal aging process.c. can be eliminated using stem cells.d. is caused by cardiovascular disease.				
	ANSWER: REFERENCES: LEARNING OBJECTIVES: KEYWORDS:	b Neuroscience and Adult Development and Aging ADaA.CAVA.15.02.03 - How is the brain organized structurally? Applied			
38.	Which researcher examined toa. Maslowb. Winecoffc. Piagetd. Bandura	he relationships between brain functioning and emotion?			
	ANSWER: REFERENCES: LEARNING OBJECTIVES: KEYWORDS:	b Neuroscience and Adult Development and Aging ADaA.CAVA.15.02.03 - How is the brain organized structurally? Factual			
39.	Research by Winecoff and co	olleagues (2011) indicates that as cognitive abilities decline, people may be less able to al in diseases such as dementia.			
	a. ignore irrelevant informatio	b. learn new tasks			
	c. hold as many pieces of info	ormation in working memory at one time d. regulate their emotions			
	ANSWER:	d			
	REFERENCES:	Neuroscience and Adult Development and Aging			
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03 - How is the brain organized structurally?			
	KEYWORDS:	Conceptual			

40.	Across the research, the typic when compared with younge	cal finding is that older adults have reduced brain activity in the areas r adults.				
	a. prefrontal and temporal	b. cerebellum and cortex				
	c. corpus callosum	d. limbic system				
	ANSWER:	a				
	REFERENCES:	Neuroscience and Adult Development and Aging				
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03 - How is the brain organized structurally?				
	KEYWORDS:	Conceptual				
41.	is the neurotrans a. Estrogen b. Insulin	smitter that sends messages throughout the brain.				
	c. Cytosine d. Dopamine					
	ANSWER:	d				
	REFERENCES:	Neuroscience and Adult Development and Aging				
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.05 - What changes occur in neurotransmitters as we age?				
	KEYWORDS:	Factual				
42.	The dopaminergic system is a and planning.	associated with high-level cognitive functioning such as inhibiting thoughts,,				
	a. attention b. socializ	ation				
	c. activity level d. temper	ament				
	ANSWER:	a				
	REFERENCES:	Neuroscience and Adult Development and Aging				
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.05 - What changes occur in neurotransmitters as we age?				
	KEYWORDS:	Factual				
43.	The effective functioning of	The effective functioning of the dopaminergic system in normal aging.				
	a. increases b. decli	nes				
	c. stays the same d. misfi	res				
	ANSWER:	b				
	REFERENCES:	Neuroscience and Adult Development and Aging				
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.05 - What changes occur in neurotransmitters as we age?				
	KEYWORDS:	Conceptual				
44.	Research has found that decl tasks.	ines in the dopaminergic system are related to declines in memory and				
	a. long-term; speed b. ser	nantic; attention				
	c. episodic; thought d. epi	sodic; speed				
	ANSWER:	d				
	REFERENCES:	Neuroscience and Adult Development and Aging				
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.05 - What changes occur in neurotransmitters as we age?				
	KEYWORDS:	Conceptual				

- 45. Abnormal processing of which neurotransmitter has been implicated in cognitive decline in normal aging, Alzheimer's disease, and schizophrenia?
 - a. serotonin
 - b. dopamine
 - c. acetylcholine
 - d. cerebraltonin

c. fMRI

ANSWER:	a
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.05 - What changes occur in neurotransmitters as we age?
KEYWORDS:	Factual

46. To explore brain-related factors that might explain age differences in cognitive functioning, a researcher may use a(n) ______ to examine how changes in brain activity occur in correspondence with changes in task demands.a. EEG b. MRI

ANSWER:	c
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.06 - What changes occur in brain structures as we age?
KEYWORDS:	Conceptual

- 47. Older adults sometimes show reduced activation of appropriate prefrontal regions. At other times, they show the same or greater recruitment of these areas, when compared with younger adults, depending on the task they are doing. This indicates that prefrontal recruitment is
 - a. unpredictable.
 - b. impossible to measure.

d. eMRI

- c. predictable in younger adults but unpredictable in older adults.
- d. context dependent.

ANSWER:	d
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.06 - What changes occur in brain structures as we age?
KEYWORDS:	Conceptual

48. Which of the following are older adults more motivated to maintain?

a. social memories	b. positive affect
c. unconscious memories	d. white matter
ANSWER:	b
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.07 - What do age-related structural brain changes mean for behavior?
KEYWORDS:	Factual

49.	Structural brain	changes [have been	linked to e	xecutive fund	ction. Fo	or example.	age-related d	leclines in
							· · · · · · · · · · · · · · · · · · ·		

_____may affect white matter structures, which underlie all the areas important to executive functioning.

a. serotonin

- b. the functioning of blood vessels
- c. cognitive abilities
- d. unilateralization

	ANSWER:	b		
	REFERENCES:	Neuroscience and Adult Development and Aging		
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.07 - What do age-related structural brain changes mean for behavior?		
	KEYWORDS:	Factual		
50.	Which region of the brain is i	mplicated in emotional processing?		
	a. cerebellum b. sensor	imotor area		
	c. hippocampus d. ventro	medial prefrontal cortex		
	ANSWER:	d		
	REFERENCES:	Neuroscience and Adult Development and Aging		
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.07 - What do age-related structural brain changes mean for behavior?		
	KEYWORDS:	Factual		
51.	P-FIT stands fora. Passive-Frontal Lobe Integc. Parieto-Fractional Imperat	gration Theory.b. Parieto-Frontal Integration Theory.tive Test.d. Partial-Frontal Interest Theory.		
	ANSWFR	b		
	REFERENCES:	Making Sense of Neuroscience Research: Explaining Changes in Brain-Behavior Relations		
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.08 - What is the P-FIT theory, and what does it explain?		
	KEYWORDS:	Factual		
52.	The P-FIT theory created by a cross-sectional study of	Jung and Haier (2007) was based upon 120 Alzbeimer's patients		
	a meta-analysis of 37 research studies			
	> Piaget's theory of cognitive development			
d. a longitudinal study of 500 individuals with dementia.		individuals with dementia.		
		L		
	AINSWER.	U Malring Sanga of Nauraimaging Descerably Explaining Changes in Design Debaying		
	KEFEKENCES:	Relations		
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.08 - What is the P-FIT theory, and what does it explain?		
	KEYWORDS:	Conceptual		

53.	Reduced brain activation or _ processing.	of the prefrontal cortex occurs in the elderly during intentional cognitive
	a. over-recruitment b. dec	cline-recruitment
	c. low-recruitment d. und	der-recruitment
	ANSWER:	d
	REFERENCES:	Making Sense of Neuroscience Research: Explaining Changes in Brain-Behavior Relations
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.09 - How do older adults attempt to compensate for age-related changes in the brain?
	KEYWORDS:	Conceptual
54.	Reduced frontal recruitment	in the aging brain is dependent.
	a. recall b. context	
	c. recognition d. thought	
	ANSWER:	b
	REFERENCES:	Making Sense of Neuroscience Research: Explaining Changes in Brain-Behavior Relations
	LEARNING OBJECTIVES:	ADaD.CAVA.15.02.09 - How do older adults attempt to compensate for age-related changes in the brain?
	KEYWORDS:	Conceptual
55.	It is now widely accepted that	t bilateral activation in the aging brain is
	a. evidence of compensation	for deterioration in certain brain regions.
	b. the result of chronic illness	es in the individual.

- c. evidence that older brains are inefficient.
- d. no different than what is observed in younger brains.

ANSWER:	a
REFERENCES:	Making Sense of Neuroscience Research: Explaining Changes in Brain-Behavior Relations
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.09 - How do older adults attempt to compensate for age-related changes in the brain?
KEYWORDS:	Conceptual

56. Which of the following is not one of the models discussed in your textbook that seeks to explain how the brain reorganizes and compensates for age-related changes?a. P-FIT b. HAROLD

a. P-FIT	b. HAROL	U.
c. CRUNCH	d. STAC	
ANSWER:		a
REFERENCES:		Making Sense of Neuroscience Research: Explaining Changes in Brain-Behavior Relations
LEARNING OBJ	IECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the HAROLD, CRUNCH, and STAC models?
KEYWORDS:		Factual

57. The HAROLD model indicates that older brains recruit additional neural units to increase attentional resources, processing speed, or
a. inhibitory control.
b. long-term memory capacity.
c. facial recognition.
d. intelligence.

e. nachai recognition. d. n	temperee.
ANSWER:	a
REFERENCES:	Making Sense of Neuroscience Research: Explaining Changes in Brain-Behavior Relations
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the HAROLD, CRUNCH, and STAC models?
KEYWORDS:	Conceptual

- 58. The CRUNCH model suggests that there are two main mechanisms the older brain uses to perform tasks:
 - a. increased synapses and neurotransmitters.
 - b. memory aids such as mnemonic devices and brain training exercises.
 - c. brain training and recruiting friends to help with cognitive tasks.
 - d. more of the same and supplementary processes.

ANSWER:	d
REFERENCES:	Making Sense of Neuroscience Research: Explaining Changes in Brain-Behavior Relations
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the HAROLD, CRUNCH, and STAC models?
KEYWORDS:	Conceptual

59. One of the most significant findings in the neuroscience literature is the observed ______ of neural activation patterns in older adults' brain activity when compared with the brain functioning of younger adults.

a. continuity	b. latera	lization
c. bilateralization	d. interre	aption
ANSWER:		c
REFERENCES:		Making Sense of Neuroscience Research: Explaining Changes in Brain-Behavior Relations
LEARNING OBJEC	CTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the HAROLD, CRUNCH, and STAC models?
KEYWORDS:		Conceptual

60. Activation of both left and right prefrontal areas of the brain is called ______ activation.

a. onateral	b. unnat	era
c. hyperintensive	d. atropl	hic
ANSWER:		a
REFERENCES:		Making Sense of Neuroscience Research: Explaining Changes in Brain-Behavior Relations
LEARNING OBJEC	TIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the HAROLD, CRUNCH, and STAC models?
KEYWORDS:		Factual

61.	Bilateral activat	tion in older a	dults may serve a functional and supportive role in their for	unctioning.	
	a. conscious	b. unconscio	us		
	c. cognitive	d. physical			
	ANSWER:		c		
	REFERENCES	:	Making Sense of the Neuroscience Research: Explaining Changes in Relations	I Brain-Behavior	
	LEARNING OI	BJECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the CRUNCH, and STAC models?	he HAROLD,	
	KEYWORDS:		Conceptual		
62.	Research findin a number of tas	Research findings have shown an association between bilateral activation in older adults and performance in a number of tasks, including memory tasks.			
	a. higher; long-t	term b. lov	wer; working		
	c. higher; worki	ng d. lov	wer; short-term		
	ANSWER:		c		
	REFERENCES	: :	Making Sense of Neuroscience Research: Explaining Changes in Bra Relations	ain-Behavior	
	LEARNING OF	BJECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the CRUNCH, and STAC models?	he HAROLD,	
	KEYWORDS:		Conceptual		
63.	Evidence has sl efficiency of ne a. increase; inc	hown that the eural processi reased b.	e in frontal activity in older adults may be a response to the ng related to the perceptual areas of the brain. decrease; increased	2	
	c. function; incl	reased d.	increase; decreased		
	ANSWER:		d		
	REFERENCES	:	Making Sense of Neuroscience Research: Explaining Changes in Bra Relations	ain-Behavior	
	LEARNING OF	BJECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the CRUNCH, and STAC models?	he HAROLD,	
	KEYWORDS:		Conceptual		
64.	The default net at rest and not in a. intense b. c. active d.	work of the b nvolved in a c inactive observed	rain refers to the regions of the brain that are most when cognitive task.	an individual is	
	ANSWER:		с		
	REFERENCES	:	Making Sense of Neuroscience Research: Explaining Changes in Bra Relations	ain-Behavior	
	LEARNING OF	BJECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the CRUNCH, and STAC models?	he HAROLD,	
	KEYWORDS:		Factual		

65. STAC stands for

- a. Social Tact and Cognition
- b. Specialized Telemeres and Cognitive Functioning
- c. Scaffolding Theory of Cognitive Aging

d. Social-Congitive Theory of Adult Competence

REFERENCES: Making Sense of Neuroimaging Research: Explaining Changes in Brain-Beha Relations LEARNING OBJECTIVES: ADaA.CAVA.15.02.10 - What are the major differences between the HARG CRUNCH, and STAC models? KEYWORDS: Factual 66. The scaffolding theory of cognitive aging (STAC) model suggests that the reason older adults continue to p at levels despite neuronal deterioration is because of compensatory scaffolding. a. low b. high c. superior d. unpredictable ANSWER: b REFERENCES: Making Sense of Neuroscience Research: Explaining Changes in Brain-Behar Relations LEARNING OBJECTIVES: ADaA.CAVA.15.02.10 - What are the major differences between the HARG CRUNCH, and STAC models? KEYWORDS: Conceptual 67. Compensation is the brain's response to a. disease a. disease b. deterioration c. indivity d. injury ANSWER: b REFERENCES: Making Sense of Neuroscience Research: Explaining Changes in Brain-Behar Relations LEARNING OBJECTIVES: ADaA.CAVA.15.02.10 - What are the major differences between the HARG CRUNCH, and STAC models? KEYWORDS: Eactual 68. Park and Reuter-Lorenz argue that the integrative approach provided by the STAC model embraces a "lifel potential for plastici		ANSWER:	c
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KEYWORDS: Conceptual		LEARNING OBJECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the HAROLD, CRUNCH, and STAC models?
		KEYWORDS:	Conceptual

69.	Which part of the	brain is preserved	from aging?
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	1	
	a. amygdala b. occipital	
	c. parietal d. prefronta	al
	ANSWER:	
	REFERENCES:	Neural Plasticity and the Aging Brain
	LEARNING OBJECTIVES	: ADaA.CAVA.15.02.11 - What evidence is there for neural plasticity?
	KEYWORDS:	Factual
70.	The emotional processing a processes seem to a. preserved; decline b c. preserved; increase c	areas of the brain are over time, whereas higher-order executive cognitive b. conserved; increase l. conserved; decline
	ANSWER:	a
	REFERENCES:	Neural Plasticity and the Aging Brain
	LEARNING OBJECTIVES	: ADaA.CAVA.15.02.11 - What evidence is there for neural plasticity?
	KEYWORDS:	Conceptual
71.	is a multifacete the result of the interaction a. Plasticity b. Neu c. Neuroscience d. Neu	ed concept that involves the changes in structure and function of the brain over time as of the brain with the environment. rality rofibrillation
	ANSWER	a
	RFFFRFNCFS	- Neural Plasticity and the Aging Brain
		A Da A CAVA 15.02.11. What avidence is there for neural plasticity?
		Extend
	KEYWORDS:	Factual
72.	Which of the following termin the less observed (or modela. neuroimagingb. gerouldc. positivityd. plast	ns provides a way to understand compensatory changes in both observable behavior and re difficult to observe) reorganization of neural circuitry? ntology icity
		1
	ANSWER:	
	REFERENCES:	Neural Plasticity and the Aging Brain
	LEARNING OBJECTIVES	: ADaA.CAVA.15.02.11 - What evidence is there for neural plasticity?
	KEYWORDS:	Factual
73.	Behavioral perspective reset through and tasks. a. practice; repetition b.	earch has suggested that basic cognitive processes affected by aging can be improved to multiple levels of functioning as long as the basic functions are shared across writing; reading
	c. plasticity; training d.	training; transfer
	1 7, 6	
	ANSWER:	d
	REFERENCES:	Neural Plasticity and the Aging Brain

LEARNING OBJECTIVES: ADaA.CAVA.15.02.11 - What evidence is there for neural plasticity?

KEYWORDS:

Factual

74.	Contrary to a previ the life span.	ously held	l popular belief, persist in the adult brain and can regenerate throughout
	a. synapses	b. neuron	S
	c. white matter	d. neural	stem cells
	ANSWER:		d
	REFERENCES:		Neural Plasticity and the Aging Brain
	LEARNING OBJE	CTIVES:	ADaA.CAVA.15.02.11 - What evidence is there for neural plasticity?
	KEYWORDS:		Conceptual
75.	The National Hum a. umbilical cords.	an Neural b. post	Stem Cell Resource supplies researchers with neural stem cells that are obtained from natal, postmortem human brains.
	c. mice.	d. livir	g humans.
	ANSWER:		b
	REFERENCES:		Neural Plasticity and the Aging Brain
	LEARNING OBJE	CCTIVES:	ADaA.CAVA.15.02.11 - What evidence is there for neural plasticity?
	KEYWORDS:		Conceptual
76.	Research clearly sh	nows that	brain plasticity is enhanced as a result of
	a. online "brain-trai	ining" exe	rcises. b. aerobic exercise.
	c. having parents w	vith high I	Qs. d. lack of pollution in one's environment.
	ANSWER:		b
	REFERENCES:		Neural Plasticity and the Aging Brain
	LEARNING OBJE	CTIVES:	ADaA.CAVA.15.02.12 - How does aerobic exercise influence brain changes and cognitive activity?
	KEYWORDS:		Factual
77.	Erikson and collea hippocampus, a ke a. play basketball.	gues (200 y brain str b	9) were interested in whether aerobic exercise had any effect on the volume of the ucture related to memory. To assess this, they had older adults . take yoga classes.
	c. swim laps each	day. d	. exercise on a motorized treadmill.
	ANSWER:		d
	REFERENCES:		Neural Plasticity and the Aging Brain
	LEARNING OBJE	CCTIVES:	ADaA.CAVA.15.02.12 - How does aerobic exercise influence brain changes and cognitive activity?
	KEYWORDS:		Factual
78.	Bowman and colle brain volume.	agues (20	12) identified three different associated with cognitive functioning and
	a. biomarker patter	rns b. g	yenes
	c. personality types	s d. t	ypes of exercise
	ANSWER:		a
	REFERENCES:		Neural Plasticity and the Aging Brain
	LEARNING OBJE	CTIVES:	ADaA.CAVA.15.02.13 - How does nutrition influence brain changes and cognitive activity?
	KEYWORDS:		Factual

- 79. Which of the following biomarker patterns was associated with less favorable cognitive functioning and less total cerebral brain volume?
 - a. high blood plasma levels of B, C, D, and E b. high blood plasma levels of omega-3 fatty acids
 - c. the biomarker pattern high in trans fat
- d. the biomarker pattern high in EPA

ANSWER:	c
REFERENCES:	Neural Plasticity and the Aging Brain
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.13 - How does nutrition influence brain changes and cognitive activity?
KEYWORDS:	Factual

- 80. Given what you have learned about the relationship between nutrition and cognitive functioning over time, what is one piece of advice you could give others?
 - a. The research on the relationship between nutrition and cognitive functioning is unclear.
 - b. Maintaining good levels of certain nutrients in blood plasma can reduce structural changes in the brain and cognitive declines.
 - c. The nutrients important for women's cognitive functioning are different from those required by men.
 - d. After age 75, nutrition is not an important factor in cognitive functioning.

ANSWER:	b
REFERENCES:	Making Sense of Neuroimaging research: Explaining Changes in Brain-Behavior Relations
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.13 - How does nutrition influence brain changes and cognitive activity?
KEYWORDS:	Applied

81. Why do we say neuroimaging must be used "carefully and ethically"?

ANSWER:	Both structural and functional neuroimaging techniques have greatly expanded our
	understanding of the human brain. We now know more about normative and
	nonnormative changes over time as well as what areas of the brain age faster and
	which age slower, or are somewhat immune to the aging process. However, we still
	don't know definitively which changes are normal and which are not and how these
	changes may vary by individual. We still need to understand more about how
	development or progress in one area of functioning may be accompanied by reduced
	functioning in another area. Finally, we still do not understand all there is to know
	about individual differences in the structure and function of the brain as we age. What
	we observe needs to be substantiated by other research. In other words, neuroscience
	findings must be corroborated by other research to increase their validity.
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Conceptual

82. What are structural imaging techniques best at identifying?

ANSWER:	X-rays, CT scans, and MRIs are structural imaging techniques. These techniques
	provide highly detailed pictures of the anatomical features of the brain. As such, they
	are especially adept at identifying bone fractures, tumors, and other conditions that
	create structural issues in the brain, such as strokes.
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Factual

83. Discuss the differences between MRI and fMRI.

ANSWER:	Magnetic resonance imaging (MRI) is a type of structural neuroimaging. It provides an image that looks like a photograph. These pictures document what certain brain structures or regions look like at one point in time. Functional magnetic resonance imaging (fMRI) is a functional neuroimaging technique. These types of techniques give an indication of brain activity but not of the brain anatomy. fMRI is the most commonly used technique in cognitive neuroscience research. A typical fMRI image shows different levels of brain activity using different colors. Therefore, scientists can see which areas of the brain are most active during certain tasks.
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Factual

84. What is the neurocorrelational approach? How does it differ from the neuropsychological approach? Explain.

ANSWER:	The neurocorrelational method of research examines the relations between measures of cognitive performance and measures of brain structure or functioning. In this method, instead of using direct measures of brain functioning, researchers may use behavioral tests that are associated with the functioning of one brain region or another. The neuropsychological approach, on the other hand, attempts to compare the brain functioning of healthy older adults with the brain functioning of adults showing various brain pathologies. Scientists wish to understand whether changes in certain areas of the brain, due to aging or injury, result in the same types of structural or functional issues. For example, people with damage to the frontal lobe show a decrease in mental processing speed. The same slowing is observed in healthy older adults.
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.02 - What are the main research methods used and issues studied in neuroscience research in adult development and aging?
KEYWORDS:	Conceptual

85. Discuss the key structural features of a neuron. What is the role of neurotransmitters?

ANSWER:	The brain is made up of neurons. The dendrites are the component of neurons that receive signals from other nearby neurons. The axons contain neurofibers. These neurofibers carry information inside the neuron from the dendrites to the terminal branches, which are the endpoints of the neuron. Terminal branches release chemicals called neurotransmitters. Because neurons do not touch, it is these neurotransmitters that cross the synapse and are received by the dendrites of next nearby neuron.
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03 - How is the brain organized structurally?
KEYWORDS:	Factual

86. What is the default network of the brain and how is it related to poorer performance of cognitive tasks in older adults?

ANSWER:	The default network of the brain refers to the areas of the brain that are most active when one is at rest and not engaged in any cognitive task. Older individuals have more problems than younger people suppressing this default network. For example, when a younger begins an engaging and challenging cognitive task, the default network is suppressed. Older adults show less suppression, resulting in poorer performance overall. Increased frontal activity in older adults may be one way they work around this lack of suppression.
REFERENCES:	Making Sense of Neuroimaging Research: Explaining Changes in Brain-Behavior Relations
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the HAROLD, CRUNCH, and STAC models?
KEYWORDS:	Factual

87. Describe plasticity. Are compensatory changes in the elderly an example of plasticity? Does research using neural stem cells support the idea of plasticity?

ANSWER:	Plasticity in the brain refers to its ability to change in structure and function as a relation of the brain's interaction with the environment. Plasticity refers to brain change or flexibility over time. The fact that research documents that older adults can improve their memories by being trained to use certain strategies in certain circumstances speaks to the brain's ongoing plasticity. Evidence for plasticity is also seen when older adults use bilateral activation. While younger adults use more unilateral activation when working on specific tasks, older adults use more bilateral activation. It appears they are working harder and utilizing more brain structures to optimize their thinking and performance. Finally, it was believed that neurogenesis (the proliferation of neural cells) dwindled with the embryonic period. The finding that neural stem cells exist in adult brains and can generate new neurons throughout the life span speaks to the plasticity of the human brain.
REFERENCES:	Neural Plasticity and the Aging Brain
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.11 - What evidence is there for neural plasticity?
KEYWORDS:	Factual

88. Can exercise actually improve one's cognitive skills? Cite examples from research to support.

ANSWER:	Research clearly shows that brain plasticity is enhanced by aerobic exercise. For example, Erickson and colleagues (2009) were interested in whether aerobic exercise had any effect on the volume of the hippocampus, a brain structure involved in memory. Participants exercised on a treadmill, completed a spatial memory task, and had MRIs to determine hippocampal volume. Results indicated that higher fitness levels were associated with greater hippocampal weights, which in turn were associated with greater performance on the spatial memory task.
REFERENCES:	Neural Plasticity and the Aging Brain
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.12 - How does aerobic exercise influence brain changes and cognitive activity?
KEYWORDS:	Conceptual

89. What type of nutrition has been associated with better cognitive functioning and greater brain volume? What type of nutrition has been connected to poorer cognitive outcomes?

ANSWER:	Certain biomarkers, namely those plasma levels high in B, C, D, and E and those high in omega-3 fatty acids (particularly DHA) were associated with higher cognitive functioning and greater overall brain volume. On the other hand, blood plasma levels high in trans fats were associated with lower cognitive functioning and less total cerebral volume. Overall, the results of these studies indicate that keeping certain levels of specific nutrients in blood plasma enhanced cognitive ability. Researchers are only now beginning to understand the implications of nutrition on cognitive functioning over time. More research is needed in this area to substantiate and expand these findings.
REFERENCES:	Neural Plasticity and the Aging Brain
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.13 - How does nutrition influence brain changes and cognitive activity?
KEYWORDS:	Factual

90. What have you learned in this chapter about the ways in which brain deterioration can be slowed or even reversed?

ANSWER:	Even though there are normative declines in some areas of cognitive abilities in some people over time, such as a decrease in processing speed, there are still a number of things one can do to maintain or increase one's cognitive functioning over time. Eating a healthy diet, exercising, and maintaining one's intellectual activities and interests all are important in maintaining cognitive functioning and health. Having interesting work or hobbies, engaging in conversations with others, learning how to use mnemonic devices, and even doing puzzles and brain teasers all provide mental energy and promote mental flexibility.
REFERENCES:	Neural Plasticity and the Aging Brain
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.13 - How does nutrition influence brain changes and cognitive activity?
KEYWORDS:	Factual

91. Researchers now acknowledge that cognitive, social, and emotional change in older adulthood is influenced by changes in the brain at both the ______ and _____levels.

ANSWER:	structural; functional
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Conceptual

92. Bone fractures, tumors, and other conditions that can cause structural damage in the brain are typically detected by the use of ______.

ANSWER:	structural neuroimaging
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Factual

93. The ______ approach compares the brain functioning of healthy older adults with adults displaying various pathological brain disorders.

ANSWER:	neuropsychological
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.01 - What brain imaging techniques are used in neuroscience?
KEYWORDS:	Factual

94. The neurocorrelational approach attempts to link measures of ______ performance to measures of brain ______ or functioning.

ANSWER:	cognitive; structure
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.02 - What are the main research methods used and issues studied in neuroscience research in adult development and aging?
KEYWORDS:	Conceptual

95. The ______ approach allows for real-time investigation of changes in brain function as they affect cognitive performance in older adults.

ANSWER:	activation-imaging
REFERENCES:	The Neuroscience Approach
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.02 - What are the main research methods used and issues studied in neuroscience research in adult development and aging?
KEYWORDS:	Factual

96. Neurotransmitters are chemicals that cross the spaces between neurons. These spaces are called

_____•

ANSWER:	synapses
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03 - How is the brain organized structurally?
KEYWORDS:	Factual

97. The study of the structure of the brain is called ______.

ANSWER:	neuroanatomy
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03 - How is the brain organized structurally?
KEYWORDS:	Factual

98. The ______ is the outermost part of the brain. It consists of two hemispheres (the right and the left), which are connected by the corpus callosum.

ANSWER:	cerebral cortex
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03 - How is the brain organized structurally?
KEYWORDS:	Factual

99. The method called DTI results in an index of the structural health of ______.

ANSWER:	white matter
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.03 - How is the brain organized structurally?
KEYWORDS:	Factual

100. Aside from dopamine, serotonin and acetylcholine are two other important ______ related to cognitive aging.

ANSWER:	neurotransmitters
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.05 - What changes occur in neurotransmitters as we age?
KEYWORDS:	Factual

101. There is a decrease in the processing of negative emotional information and an increase in the processing of positive emotional information that occurs with _____.

ANSWER:	age
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.07 - What do age-related structural brain changes mean for behavior?
KEYWORDS:	Conceptual

102. Even though aging is associated with an overall decrease in the number of new neurons, this differs across

ANSWER:	regions of the brain
REFERENCES:	Neuroscience and Adult Development and Aging
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.07 - What do age-related structural brain changes mean for behavior?
KEYWORDS:	Conceptual

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103.	Older adults compensate for performing the same tasks.	brain changes by	of the brain than young adults when
	ANSWER:	activating more areas	
	REFERENCES:	Making Sense of Neuroimaging Research: E Relations	xplaining Changes in Brain-Behavior
	LEARNING OBJECTIVES:	ADaA.CAVA.15.02.09 - How do older adul changes in the brain?	ts attempt to compensate for age-related
	KEYWORDS:	Factual	
104.	The scaffolding networks us adults.	ed by older adults are than the	honed, focal ones they used as young

ANSWER:	less efficient
REFERENCES:	Making Sense of Neuroimaging Research: Explaining Changes in Brain-Behavior Relations
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.10 - What are the major differences between the HAROLD, CRUNCH, and STAC models?
KEYWORDS:	Factual

105. Contrary to what was previously thought, _____ can regenerate, even in late life, under the right circumstances.

ANSWER:	brain cells
REFERENCES:	Neural Plasticity and the Aging Brain
LEARNING OBJECTIVES:	ADaA.CAVA.15.02.11 - What evidence is there for neural plasticity?
KEYWORDS:	Factual