/test-bank	CHGGANTINIA 8	https://selldocx.com/products հրգանիգիցի անում - research-and-everyday-experience-4e-goldstein
	gnitive psych	
	euroscience.	
c. cc	gnitive neuro	science.
d. ne	europsycholog	y.
ANS	WER:	С
POL	NTS:	1
DIF	FICULTY:	EASY
REF	ERENCES:	Introduction
intere focus whos up. T persp	ested in determined on relieving se goal is to he had to that to	tly been diagnosed with a rather aggressive form of abdominal cancer. Her oncologist is mining the best way to treat her so that the tumors can be eliminated. Her gastroenterologist is ag her symptoms and giving her normal digestive functioning. Barbara is also seeing a psychologist, elp her stay calm, relaxed, and keep her anxiety as minimal as possible while keeping her spirits hese doctors are considering Barbara's situation with different goals and from different milar to the idea of presented in your textbook.
b. id	iographic eval	uation
c. no	mothetic exa	mination
d. le	vels of analys	is
ANS	WER:	d
POL	NTS:	1
DIF	FICULTY:	MODERATE
REF	TERENCES:	Why Study Cognitive Neuroscience?
a. no	author point omothetic; idio	
c. br	ain; body	

d. observational; correlational

DIFFICULTY: EASY

b

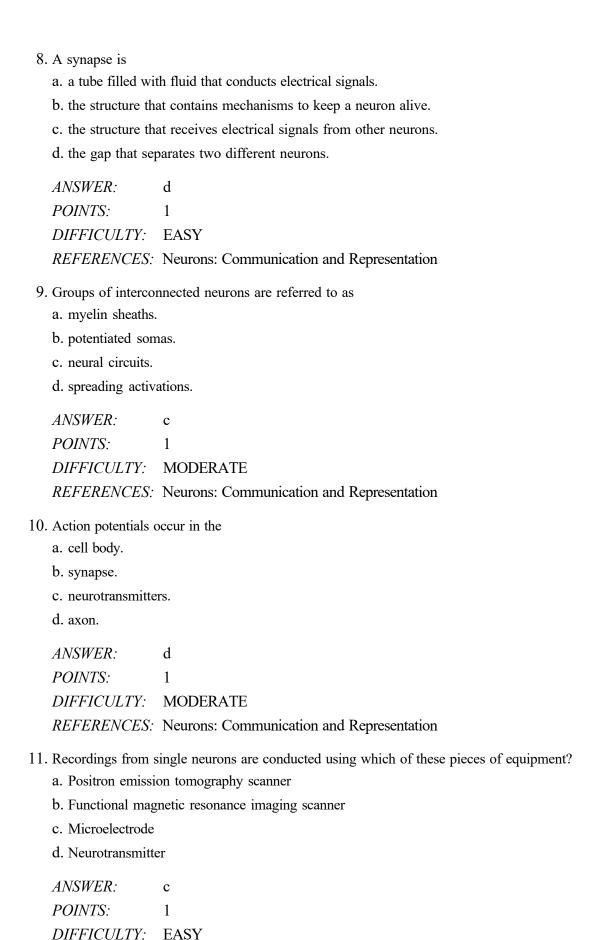
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REFERENCES: Why Study Cognitive Neuroscience?

ANSWER:

POINTS:

4.	•	rain tissue that used staining techniques and microscopes from the 19th century described the early understandings were in error in the sense that the nerve net was believed to be		
	a. continuous.	. continuous.		
	b. composed of dis	o. composed of discrete individual units.		
	c. composed of ce	ell bodies, axons, and dendrites.		
	d. composed of no	eurotransmitters rather than neurons.		
	ANSWER:	a		
	POINTS:	1		
	DIFFICULTY:	MODERATE		
	REFERENCES:	Neurons: Communication and Representation		
5.	The neuron doctrin	ne is		
	a. in agreement w	ith nerve net theory.		
	b. unrelated to ner	rve net theory.		
	c. synonymous wi	ith nerve net theory.		
	d. in disagreement	t with nerve net theory.		
	ANSWER:	d		
	POINTS:	1		
	DIFFICULTY:	EASY		
	REFERENCES:	Neurons: Communication and Representation		
6.	The key structural	The key structural components of neurons are		
	a. cell body, cellu	a. cell body, cellular membrane, and transmitters.		
	b. axon, dendrites,	and glands.		
	c. cell body, dend	rites, and axon.		
	d. transmitters, de	ndrites, and nodes of Ranvier.		
	ANSWER:	c		
	POINTS:	1		
	DIFFICULTY:	EASY		
	REFERENCES:	Neurons: Communication and Representation		
7.		owing neural components is NOT found at the receiving end of neurons?		
	a. Cell body			
	b. Dendrite			
	c. Receptor			
	d. Axon			
	ANSWER:	d		
	POINTS:	1		
	DIFFICULTY:	DIFFICULT		
	REFERENCES:	Neurons: Communication and Representation		



REFERENCES: Neurons: Communication and Representation

12. If the intensity of receptor's axon.	a stimulus that is presented to a touch receptor is increased, this tends to increase the	in the
a. rate of nerve fir	ring	
b. size of the nerv	-	
c. speed of nerve	conduction	
d. all of these		
ANSWER:	a	
POINTS:	1	
DIFFICULTY:	DIFFICULT	
REFERENCES:	Neurons: Communication and Representation	
13. When recording final a. size of the action	om a single neuron, stimulus intensity is represented in a single neuron by the on potentials.	
b. size of the syna	apse.	
c. firing rate of th	e neurotransmitters.	
d. firing rate of th	e action potentials.	
ANSWER:	d	
POINTS:	1	
DIFFICULTY:	DIFFICULT	
REFERENCES:	Neurons: Communication and Representation	
	owing statements best describes how neurons communicate with one another? neuron makes direct contact with the receiving end of another neuron.	
b. A chemical pro	ocess takes place in the synapse.	
c. An electrical pr	rocess takes place in the receptors.	
d. Action potentia	ls travel across the synapse.	
ANSWER:	b	
POINTS:	1	
DIFFICULTY:	EASY	
REFERENCES:	Neurons: Communication and Representation	

15.	movement, shape, a. in one localized	ther cells in the brain. s of the brain.
	ANSWER: POINTS:	c 1
	DIFFICULTY:	
		Neurons: Communication and Representation
16.	The layer of neuro a. retina. b. grandmother ce	ons that lines the back of the eye is called the
	c. reference electr	
	d. feature detector	
	ANSWER:	a
	POINTS:	1
	DIFFICULTY:	EASY
	REFERENCES:	Neurons: Communication and Representation
17. Neurons that respond to specific qualities (e.g., such as orientation, movement, and length) that make up objectabled a. retinal cells.		and to specific qualities (e.g., such as orientation, movement, and length) that make up objects are
	b. feature detector	rs.
	c. dendrites.	
	d. receptors.	
	ANSWER:	b
	POINTS:	1
	DIFFICULTY:	EASY
	REFERENCES:	Representation by Neurons

18.	f kittens are raised in an environment that contains only verticals, you would predict that most of the neurons in their isual cortex would respond best to the visual presentation of a			
	a. brick wall.	, brick wall.		
	o. chain link fence.			
	c. solid wall.			
	d. picket fence.			
	ANSWER:	d		
	POINTS:	1		
	DIFFICULTY:	MODERATE		
	REFERENCES:	Representation by Neurons		
19.	The idea of a gran	dmother cell is consistent with		
	a. distributed codin	ng.		
	b. specificity codin	ng.		
	c. subtraction tech	nniques.		
	d. primary receiving	ng areas.		
	ANSWER:	b		
	POINTS:	1		
	DIFFICULTY:	DIFFICULT		
	REFERENCES:	Representation by Neurons		
20.	A grandmother ce	ll responds		
	a. only to a specifi	ic stimulus.		
	b. to strong positive	ge emotion.		
	c. to both positive	and negative emotion.		
	d. to a variety of s	timuli.		
	ANSWER:	a		
	POINTS:	1		
	DIFFICULTY:	MODERATE		
	REFERENCES:	Representation by Neurons		

21.	respond differently responding the mo	an experiment on how stimuli are represented by the firing of neurons, you notice that neurons y to different faces. For example, Arthur's face causes three neurons to fire, with neuron 1 lost and neuron 3 responding the least. Roger's face causes three different neurons to fire, with night the least and neuron 9 responding the most. Your results supportcoding.
	ANSWER:	c
	POINTS:	1
	DIFFICULTY:	
		Representation by Neurons
	REFERENCES.	Representation by Neurons
22.	The concept of disorder of a. microelectrodes b. stimuli. c. modalities. d. neurons.	stributed neural coding proposes that a specific object, like a face, is represented across a number
	ANSWER:	d
	POINTS:	1
	DIFFICULTY:	
		Representation by Neurons
	REFERENCES.	Representation by Neurons
23.		s face is represented in the nervous system by the firing of
		or that fires specifically to that face.
	b. a group of neur	ons that all respond only to that face.
	c. a group of neur	ons each responding to a number of different faces.
d. a receptor in the retina that responds when the face is present.		e retina that responds when the face is present.
	ANSWER:	c
	POINTS:	1
	DIFFICULTY:	DIFFICULT
	REFERENCES:	Representation by Neurons

- 24. Which of the following statements is the most accurate with regard to specificity coding?
 - a. It is probably accurate, which explains why the human nervous system contains over one hundred quadrillion neurons.
 - b. Research has found that specificity encoding does occur for lower animals, such as dogs and cats, but has not found this phenomenon to exist in human beings.
 - c. It is unlikely to be correct because there are too many stimuli in the world to have a separate neuron for each.
 - d. Specificity coding is one of the areas that is only theoretical and not applied, and thus there is no way to know if it truly exists in human beings.

ANSWER: c
POINTS: 1

DIFFICULTY: DIFFICULT

REFERENCES: Representation by Neurons

- 25. Which of the following is consistent with the idea of localization of function?
 - a. Specific areas of the brain serve different functions.
 - b. Neurons in different areas of the brain respond best to different stimuli.
 - c. Brain areas are specialized for specific functions.
 - d. All of the above.

ANSWER: d
POINTS: 1

DIFFICULTY: MODERATE

REFERENCES: Organization: Neuropsychology and Recording from Neurons

- 26. Recording from single neurons in the brain has shown that neurons responding to specific types of stimuli are often clustered in specific areas. These results support the idea of
 - a. cortical association.
 - b. dissociation.
 - c. localization of function.
 - d. the information processing approach.

ANSWER: c
POINTS: 1

DIFFICULTY: EASY

REFERENCES: Organization: Neuropsychology and Recording from Neurons

27.		Carl Wernicke's research provided early evidence for	
	a. distributed processing.b. localization of function.		
		unction.	
	c. prosopagnosia.		
	d. neural net theor	y.	
	ANSWER:	b	
	POINTS:	1	
	DIFFICULTY:	EASY	
	REFERENCES:	Organization: Neuropsychology and Recording from Neurons	
28.	The temporal lobe	is	
	a. the first place in	n the cerebral cortex where visual information is received.	
	b. important for la	nguage, memory, hearing, and vision.	
	c. important for hi	gher functions such as language, thought, and memory, as well as motor functioning.	
	d. where signals a	re received from the auditory system.	
	ANSWER:	d	
	POINTS:	1	
	DIFFICULTY:	EASY	
	REFERENCES:	Organization: Neuropsychology and Recording from Neurons	
29.	The occipital lobe	is	
	a. the part of the o	cerebral cortex where the visual cortex is located.	
	b. important for la	nguage, memory, hearing, and vision.	
	c. important for hi	gher functions such as language, thought, and memory, as well as motor functioning.	
	d. where signals a	re received from the sensory system for touch.	
	ANSWER:	a	
	POINTS:	1	
	DIFFICULTY:	EASY	
	REFERENCES:	Organization: Neuropsychology and Recording from Neurons	
30.		f the cortex receives information from all of the senses and is responsible for coordination of the higher cognitive functions such as thinking and problem solving.	
	a. subcortical		
	b. frontal		
	c. occipital		
	d. parietal		
	ANSWER:	b	
	POINTS:	1	
	DIFFICULTY:	EASY	
	REFERENCES:	Organization: Neuropsychology and Recording from Neurons	

31.	•	brain is important for touch, pressure, and pain?
	a. Occipital lobe	
	b. Hippocampusc. Temporal lobe	
	d. Parietal lobe	
	d. Failetai 100e	
	ANSWER:	d
	POINTS:	1
	DIFFICULTY:	MODERATE
	REFERENCES:	Organization: Neuropsychology and Recording from Neurons
32. A 10-month-old baby is interested in discovering different textures, comparing the touch sensations blanket and a hard wooden block. Tactile signals such as these are received by thelobe. a. parietal		• • • •
	b. occipital	
	c. frontal	
	d. temporal	
	ANSWER:	a
	POINTS:	1
	DIFFICULTY:	MODERATE
	REFERENCES:	Organization: Neuropsychology and Recording from Neurons
33.	Josiah is trying to Josiah may have d	speak to his wife, but his speech is very slow and labored, often with jumbled sentence structure.
	a. Broca's area.	
	b. Parahippocamp	al place area (PPA)
	c. Extrastriate boo	ly area (EBA)
	d. Wernicke's are	a.
	ANSWER:	a
	POINTS:	1
	DIFFICULTY:	MODERATE
	REFERENCES:	Organization: Neuropsychology and Recording from Neurons

34. Damage to Wernicke's area is in which lobe of the brain? a. Temporal b. Occipital c. Parietal d. Frontal ANSWER: a **POINTS:** 1 DIFFICULTY: DIFFICULT REFERENCES: Organization: Neuropsychology and Recording from Neurons 35. Brain-imaging techniques can determine all of the following EXCEPT a. areas of the brain activated during cognitive tasks. b. localization of brain activity in response to a specific stimulus. c. the structure of individual neurons. d. patterns of blood flow in the brain. ANSWER: c **POINTS:** 1 DIFFICULTY: DIFFICULT REFERENCES: Organization: Brain Imaging 36. Brain imaging has made it possible to a. determine which areas of the brain are involved in different cognitive processes. b. view individual neurons in the brain. c. show how environmental energy is transformed into neural energy. d. view propagation of action potentials. ANSWER: a *POINTS:* 1 DIFFICULTY: **MODERATE** REFERENCES: Organization: Brain Imaging 37. Hemoglobin molecules in areas of high brain activity a. gain some of the ferrous molecules they are transporting. b. lose some of the ferrous molecules they are transporting. c. gain some of the oxygen they are transporting. d. lose some of the oxygen they are transporting. *ANSWER:* d

ANSWER: d
POINTS: 1
DIFFICULTY: DIFFICULT
REFERENCES: Organization: Brain Imaging

38.		wing brain imaging techniques, discovered in 1908, is now a standard technique for detecting brain abnormalities?
		ance imaging (MRI)
	b. Computed tomo	
	c. X-ray imaging	
	d. Positron Emissi	on Tomography (PET)
	ANSWER:	a
	POINTS:	1
	DIFFICULTY:	DIFFICULT
	REFERENCES:	Organization: Brain Imaging
39.	The fusiform face a. Broca's aphasia	area (FFA) in the brain is often damaged in patients with a.
	b. Wernicke's aph	asia.
	c. prosopagnosia.	
	d. Alzheimer's dis	ease.
	ANSWER:	c
	POINTS:	1
	DIFFICULTY:	MODERATE
	REFERENCES:	Organization: Brain Imaging
40.	Sarah has experient has most likely sus	nced brain damage making it difficult for her to understand spatial layout. Which area of her brain stained damage?
	a. Fusiform face a	area (FFA)
	b. Parahippocamp	al place area (PPA)
	c. Extrastriate boo	ly area (EBA)
d. Functional magnetic area (FMA)		netic area (FMA)
	ANSWER:	b
	POINTS:	1
	DIFFICULTY:	MODERATE
	REFERENCES:	Organization: Brain Imaging

	_	at pictures of scantily clad women in a magazine. He is focusing on their body parts, particularly s. Which part of Ramon's brain is activated by this viewing?	
a	Fusiform face a	rea (FFA)	
b. 1	p. Parahippocampal place area (PPA)		
c.	c. Extrastriate body area (EBA)		
d.	Functional mag	netic area (FMA)	
AN	NSWER:	c	
PC	OINTS:	1	
DI	FFICULTY:	DIFFICULT	
RE	EFERENCES:	Organization: Brain Imaging	
42. Th	e idea that speci	fic cognitive functions activate many areas of the brain is known as	
a. 1	localization of fi	unction.	
b.	distributed proc	essing.	
c. :	modularity.		
d.	aphasia.		
AN	VSWER:	b	
PC	OINTS:	1	
DI	FFICULTY:	EASY	
RE	EFERENCES:	Organization: Brain Imaging	
43. Gr	oups of neurons	or structures that are connected within the nervous system are called	
a.	synaptic vesicle	S	
b. :	neuronal bridges	\mathbf{S}	
c. 1	neural networks		
d.	fused conduits		
AN	NSWER:	c	
PC	OINTS:	1	
DI	FFICULTY:	DIFFICULT	
RE	EFERENCES:	All Together Now: Neural Networks	

44.		led diffusor tensor imaging (DTI), the way in whichdiffuse(s) along the length of a sured to determine how different nerves communicate with each other.	
	a. water		
b. electricity			
c. neurotransmitters			
	d. sodium ions		
	ANSWER:	c	
	POINTS:	1	
	DIFFICULTY:	DIFFICULT	
	REFERENCES:	All Together Now: Neural Networks	
45.	Which of the followith each other? a. fMRI b. DTI c. PET d. EMG	wing procedures can be used to help determine the exact way in which nerve fibers communicate	
	ANSWER:	b	
	POINTS:	1	
	DIFFICULTY:		
		All Together Now: Neural Networks	
	REFERENCES.	All Together Now. Neural Networks	
46.		rons communicate. Mention the key components of the neurons that are involved. Explain the he electrical signal (the information) is transferred from one neuron to another.	
	ANSWER:	Answer not provided	
	POINTS:	1	
	REFERENCES:	Neurons: Communication and Representation	
47.	Explain how actional illustrate this process.	n potentials change in response to stimulus intensity. Use an example from one's visual system to ess.	
	ANSWER:	Answer not provided	
	POINTS:	1	
	REFERENCES:	Neurons: Communication and Representation	
48.	Explain the purpos	se of feature detectors in creating mental representation of objects.	
	ANSWER:	Answer not provided	
	POINTS:	1	
	REFERENCES:	Representation by Neurons	

49. Describe how localization of function and distributed representation work together in everyday cognitive processes. Use the example of seeing your prom date at a high school reunion to illustrate your answer.

ANSWER: Answer not provided

POINTS: 1

REFERENCES: Organization: Neuropsychology and Recording from Neurons

Organization: Brain Imaging

50. Describe three physiological techniques for investigating human cognition. What can each technique tell us about the brain and human cognition? Also, give at least one limitation of each of the three techniques.

ANSWER: Answer not provided

POINTS: 1

REFERENCES: Neurons: Communication and Representation

Organization: Brain Imaging

51. Define both localization of function and distributed representation. Discuss whether these are opposing or complementary concepts.

ANSWER: Answer not provided

POINTS: 1

REFERENCES: Organization: Brain Imaging