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Chapter (	02		
1. The study	of the	physiological basis of cognition is known as	
·	a.	cognitive psychology.	
	<b>b</b> .	neuroscience.	
	c.	cognitive neuroscience.	
	d.	neuropsychology.	
ANSWER:			c
method to eldigestive fun	iminate ectionin s are co	ntly been diagnosed with abdominal cancer. Her oncologist wants to determine the best to the tumors. Her gastroenterologist is focused on relieving her symptoms and restoring nag. Barbara's psychologist works to help minimize her anxiety and keep her spirits up. The insidering Barbara's situation with different goals and from different perspectives is similar to your textbook.	ormal ne fact that
	a.	the dynamics of cognition	
	b.	idiographic evaluation	
	c.	nomothetic examination	
	d.	levels of analysis	
ANSWER:			d
3. Your auth	or poin a. b.	nts out that studying the mind requires both and experiments.  nomothetic; idiographic  behavioral; physiological	
	c.	brain; body	
	d.	observational; correlational	
ANSWER:			b
net." These e	early un contin	orain tissue that used staining techniques and microscopes from the 19th century described anderstandings were in error in the sense that the nerve net was believed to be an uous.  Osed of discrete individual units.	ed the "nerve
	_	osed of cell bodies, axons, and dendrites.	
c. d.	_	osed of neurotransmitters rather than neurons.	
ANSWER:	comp	osed of neurotransmitters rather than neurons.	a
5. The key so a. b. c.	cell l	al components of neurons are the body, cellular membrane, and transmitters.  a, dendrites, and glands.  body, dendrites, and axons.	
a		smitters, dendrites, and nodes of Panyier	

ANSWER:

6. In the mid-20th century, the study of the mind began using which technique or model inspired by digital computers?

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	a.	Information processing model	
	b.	Genetic processing model	
	c.	Data processing model	
	d.	Signal processing model	
ANSWER	:		a
7. A synap	ose is		
a.	a tube fil	lled with fluid that conducts electrical signals.	
b.	the struc	ture that contains mechanisms to keep a neuron alive.	
c.	the struc	ture that receives electrical signals from other neurons.	
d.	the gap t	hat separates two different neurons.	
ANSWER	:		d
8. Groups	of interco	nnected neurons are referred to as	
_	a.	myelin sheaths.	
	b.	potentiated somas.	
	c.	neural circuits.	
	d.	spreading activations.	
ANSWER	:		c
9. Action	potentials	occur in the	
,	a.	11.1 1	
	b.	synapse.	
	c.	neurotransmitters.	
	d.	axon.	
ANSWER	<i>:</i>		d
10. If the i		of a stimulus that is presented to a touch receptor is increased, this tends to increase the _	in
	a.	rate of nerve firing	
	b.	size of the nerve impulses	
	c.	speed of nerve conduction	
	d.	All of these are correct.	
ANSWER	<i>:</i>		a
11. When	recording	from a single neuron, stimulus intensity is represented by the	
	_	ize of the action potentials.	
	b. si	ize of the synapse.	
	c. fi	iring rate of the neurotransmitters.	
	d. fi	ring rate of the action potentials.	

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ANSWER:			d
	g statements best describes how nake direct contact with each oth		th one another?
b. A chemical	process takes place in the synap	se.	
c. An electrica	al process takes place in the recep	ptors.	
d. Action pote	ntials travel across the synapse.		
ANSWER:			b
features are processed	n the street and see a nice car drivellocalized area of the brain.	ve by. You notice its colo	or, movement, and shape. All of these
b. by a sp	pecific object neuron.		
c. in diffe	erent parts of the brain.		
d. throug	h fMRI potentials.		
ANSWER:	-		c
This difference will conting a. the neuron'b. the impulse	s receptor continues to be stimul is past the recording electrode. ain in the neuron.		lts more negative than the outside.
ANSWER:			d
15. Neurons that respond a. b. c. d.	to specific qualities of objects, so retinal cells. feature detectors. dendrites. receptors.	ach as orientation, moven	nent, and length, are called
ANSWER:			b
	an environment that contains on nd best to the visual presentation brick wall. chain link fence. solid wall.		redict that most of the neurons in their
d.	picket fence.		
ANSWER:	•		d

17. Which organ is unique in that it appears to be static tissue?

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	a.	Heart			
	b.	Brain			
	c.	Lungs	<b>;</b>		
	d.	Kidne			
ANSWER:			•		b
neuron from a rece a. the shape	ptor in the skir and height of	changed as he app the action potential	erve firing and sensory expedited more pressure to the sk increased as he increased the	tin. He found that ne pressure.	he firing of a
-	_	-	decreased as he increased the	ne pressure.	
	_	ncreased as he incre	•		
	i nerve firing o	ecreased as ne incr	eased the pressure.		
ANSWER:					С
respond differently the most and neuro	to different fa in 3 responding	ces. For example, A the least. Roger's	are represented by the firing Arthur's face causes three ne face causes three different ne tults support co	eurons to fire, with neuron leurons to fire, with neuron	responding
	c.	sparse			
	d.	divergence			
ANSWER:					c
<ul><li>a. The densit</li><li>b. The densit</li><li>c. The nerve</li></ul>	ty of cells in a ty of cells in a net system in	newborn brain is sr	-	sity in an adult brain.	
ANSWER:					a
<ul><li>21. Which of the form</li><li>a. It is probabile neurons.</li><li>b. Research here</li><li>b. found this probabile form</li></ul>	oly accurate, was found that sphenomenon to	hich explains why specificity encoding so exist in human be	•	contains over one hundred bals, such as dogs and cats, b	oillion out has not
	•		too many stimuli in the wor	•	
•	coding is one truly exists in h		only theoretical and not app	lied, and thus there is no w	ay to
ANSWER:					c

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22. Which of the following is consistent with the idea of localization of function?

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a. Spec	eific areas of the	brain serve different fu	inctions.	
•			ond best to different stimuli	
		alized for specific func		
d. All o	of these are corre	ect.		
ANSWER:				d
clustered in spe		se results support the id		ng to specific types of stimuli are often
a. b.	dissociation.	ration.		
	localization of	of function		
c. d.		on processing approach		
ANSWER:	the informati	on processing approact	1.	
ANSWEN.				c
24. Paul Broca	a. distrib	nicke's research provide uted processing. cation of function.	ed early evidence for	
		pagnosia.		
		net theory.		
ANSWER:	d. Hearar	net theory.		ь
anvom Ert.				· ·
25. What is the	e metabolic cente a.	er of an individual neur Nerve	on?	
	b.	Connectome		
	c.	Axon		
	d.	Cell body		
ANSWER:				d
26. Thethe senses, as w			nation from all of the sense as thinking and problem sol	es and is responsible for coordination of ving.
	a.	subcortical		
	b.	frontal		
	c.	occipital		
	d.	parietal		
ANSWER:				ь
27. Which part	of a neuron tran	nsmits signals to other r	neurons?	
	a.	Dendrites		
	b.	Axons		
	c.	Cell body		

Name :			Class :	e:
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	d.	Nerv	re net	
ANSWER:				b
28. A 10-month	-old baby is	interested in disc	overing different textures, comparis	ng the touch sensations between a soft
		olock. Tactile sign	als such as these are received by the	
	a	•	rietal	
	b		cipital	
	C.		ntal	
	d	. ten	nporal	
ANSWER:				a
		to which area of		often with jumbled sentence structure.
b.	Parahippo	ocampal place are	a (PPA)	
c.	Extrastria	ate body area (EB	A)	
d.	Wernicke	e's area		
ANSWER:				a
30. Which parts	of neurons :	are also known as	a "nerve fiher"?	
so. Willen parts	a.	Touch recept		
	b.	Receptor		
	c.	Axons		
	d.	Dendrites		
ANSWER:				c
31. What is the				body of another neuron known as?
	a		octrine	
	b		napse	
	С		Kon	
	d	. De	endrite	
ANSWER:				b
32. Brain imagi	ng has made	it possible to		
a. determ	ine which a	reas of the brain a	re involved in different cognitive p	rocesses.
b. view in	ndividual ne	urons in the brain		
c. show h	now environ	mental energy is t	ransformed into neural energy.	
d. view p	ropagation o	of action potential	S.	
ANSWER:				a

33. In which of the following body parts are neurons NOT present?

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	a.	Eyes	
	b.	Ears	
	c.	Skin	
	d.	Arteries	
ANSWER:			d
34. Which part of	of the nervous syst	em picks up information from the outside en	vironment?
-	a.	Dendrites	
	b.	Axons	
	c.	Synapses	
	d.	Receptors	
ANSWER:			d
35. The fusiform	` ′	n the brain is often damaged in patients with aphasia.	
		ke's aphasia.	
	c. prosop	agnosia.	
	d. Alzhei	ner's disease.	
ANSWER:			c
36. Sarah has ex	perienced brain da	mage making it difficult for her to understan	nd spatial layout. Which area of her brain
has most likely s	ustained damage?		
a.	Fusiform face a	` '	
b.		al place area (PPA)	
С.	Extrastriate boo		
d.	Functional mag	netic area (FMA)	
ANSWER:			ь
		athletes in a sports magazine. He is focusing rain is activated by this viewing?	on their body parts, particularly their chest
a.	Fusiform face a	rea (FFA)	
b.	Parahippocamp	al place area (PPA)	
c.	Extrastriate boo	y area (EBA)	
d.	Functional mag	netic area (FMA)	
ANSWER:			c
38. The idea that	t specific cognitive	e functions activate many areas of the brain is	s known as
a.	localization	of function.	
b.	distributed	representation.	
c.	modularity		

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	d.	aphasia.			
ANSWER		•		b	
39. Group	s of neuro	ns or structures th	at are connected within the nervo	ous system are called	
	a	. synapt	c vesicles		
	b	neuror	al bridges		
	c	neural	networks		
	d	I. fused of	onduits		
ANSWER	).			c	
40. Which	n of the fol	lowing is similar	to early ideas scientists had about	t the brain's physical properties?	
		a.	A tree		
		b.	A web		
		c.	A pipe		
		d.	A river		
ANSWER	).			ь	
41. What	is a key di	fference between	dendrites and axons?		
a.	•		and the other is externally activa	ited.	
b.	One has	physical form an	I the other lacks physical form.		
c.	One send	ds information an	d the other receives information.		
d.	One has	a positive charge	and the other has a negative charg	ge.	
ANSWER	).			c	
42. It's of functionin		at "life doesn't ex	ist in a vacuum." However, the en	mptiness of is critical for brain	
	0	a.	nerves		
		b.	receptors		
		c.	dendrites		
		d.	synapses		
ANSWER	).			d	
			hich of the following neural conc	modular wall panels, which are then assemble epts?	oled to
	b.	Localization of	f function		
	c.	Hierarchical p	rocessing		
	d.	Distributed re	•		
ANSWER		•		c	

44. Before the advent of intercoms, old mansions had a sash in each room. Each sash was connected to a bell on a master

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ring on the r	naster boar	d, inforn	_	to go to provide assistance.	a bell corresponding to the room would
•	a.		arse coding		
	b.	Loc	calization coding		
	c.	Pop	oulation coding		
	d.	Spe	ecificity coding		
ANSWER:					d
45. Which o	of the follow	wing cou	lld be considered as a	lways taking a "working va	cation"?
	a.	Temp	oral lobe		
	b.	Defau	ılt mode network		
	c.	Broca	a's area		
	d.	Neura	al networks		
ANSWER:					b
46. Which o	of the follow	wing terr		functional network activity i	in the brain?
		a.	Responsive		
		b.	Conditional		
		c.	Consistent		
		d.	Variable		
ANSWER:					С
					e that opened the door to new ideas about milar to which of the following?
	;	a.	Salience		
	1	b.	Voxel		
		c.	Connectome		
	•	d.	Aphasia		
ANSWER:					c
			signal (the informatio	ne key components of the ne n) is transferred from one no er not provided	urons that are involved. Explain the euron to another.
49. Explain to illustrate		_	als change in respons	e to stimulus intensity. Use	an example from the human visual system
ANSWER:	•		Answe	er not provided	
50. Explain occur in a ye	_	_	erience-dependent pla	asticity in the brain. Provide	a hypothetical example of how this might
ANSWER:	-		Answe	er not provided	

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51. List the three	perspec	ctives on the problem of sensory coding and provide an ex	cample of each.
ANSWER:		Answer not provided	•
brain would proce		epresented in the brain differently than sensory stimuli? Great stimulus and a memory, and explain your reasoning.	ive an example comparing how the
ANSWER:		Answer not provided	
53. Explain the d your thinking.	ifferenc	e between functional connectivity and structural connectivity	vity. Provide an example to support
ANSWER:		Answer not provided	
54. The value that	at stays	the same as long as there are no signals in the neuron is known impulse.	nown as
	b.	resting potential.	
	c.	action potential.	
	d.	nerve transmission.	
ANSWER:			ь
55. Which substa	nce is r	eleased when signals reach the synapse at the end of the a	xon?
	a.	Axon	
	b.	Receptors	
	c.	Dendrites	
	d.	Neurotransmitters	
ANSWER:			d
56. What does the	e princi	pal of neural representation state?	
		son experiences is based on representations in the person's	s nervous system.
b. Everythii	ng a per	son experiences is based on the position of neurotransmitt	ters in the person's nervous system.
		son experiences is based on position of synapses in the pe	
d. Everythi	ng a per	son experiences is based on the capacity of receptors in th	ne person's nervous system.
ANSWER:			a
57. The idea that called	an obje	ct could be represented by the firing of a specialized neuro	on that responds only to that object is
	a.	specificity coding	
	b.	population coding	
	c.	sparse coding	
	d.	hierarchical coding	
ANSWER:		-	a