Chapter 3 - Sensation and Perception 1. The perceptual constancies trick the eye through visus a. True b. False ANSWER: True 2. Glen is an accomplished guitarist. He can play the guitarist his fingers are on. He does this with the aid a. True b. False ANSWER: False 3. Genetic components do not contribute to an individua a. True b. False ANSWER: False 4. The Hering-Helmholtz illusion is a visual illusion. a. True b. False		
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 3. Genetic components do not contribute to an individua a. True b. False ANSWER: False 4. The Hering–Helmholtz illusion is a visual illusion. a. True 		When he does this, he is quite aware of
 a. True b. False ANSWER: False 4. The Hering–Helmholtz illusion is a visual illusion. a. True 		
ANSWER: False 4. The Hering–Helmholtz illusion is a visual illusion. a. True	l's sensitivity to basic tast	es.
a. True		
ANSWER: True		
5. Sensory receptors embedded in the skin fire when the a. Trueb. False	surface of the skin is touc	ched.
ANSWER: True		
 Active touching means continuously moving your harsensory input from the object. a. True b. False ANSWER: True 	nd along the surface of an	object so that you continue to receive
7. Humans can detect the odor of 1 one-millionth of a m	illigram of vanilla in a lite	er of air

- a. True
- b. False

ANSWER: True

- 8. Psychophysicist Ernst Weber discovered that the threshold for perceiving differences in the intensity of light is about 10 percent of their intensity.
 - a. True
 - b. False

ANSWER: False

9. The rods and cones in the eye respond to light with chemical changes that create neural impulses that are picked up by the unipolar cells.

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Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
a. True b. False ANSWER: False		
10. According to the law of similarity, wea. Trueb. FalseANSWER: False	e perceive different objects as belonging to	ogether.
11. Odors trigger firing of receptor neurona. Trueb. FalseANSWER: True	ns in the olfactory membrane high in each	n nostril.
12. The iris is the muscle in the eye that c a. True b. False ANSWER: True	controls the amount of light that passes thr	rough the cornea.
13. Convergence causes feelings of tension a. True b. False ANSWER: True	on in the eye muscles and provides a binoc	cular cue for depth.
14. Researchers historically agreed on for a. Trueb. FalseANSWER: True	ur primary taste qualities: sweet, sour, salt	ty, and bitter.
15. Frequency and amplitude are depended a. True b. False ANSWER: False	ent on each other.	
16. Cochlear implants contain microphonodamaged hair cells to stimulate the audito a. True b. False		ment that transmits sounds past
ANSWER: True 17. The term parapsychological phenome a. True b. False ANSWER: False	ena refers to the perception of objects or e	vents through sensory organs.

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
18. When the eyeball is too short, the images a. True b. False	of nearby objects are focused in from	nt of the retina, causing farsightedness.
ANSWER: False		
19. The organ of Corti is a membrane that lies a. True b. False ANSWER: False	s coiled within the cochlea.	
ANSWER. Faise		
20. Top-down processing involves the organisthey compose.a. Trueb. False ANSWER: False	zation of the parts of a pattern to reco	ognize, or form an image of, the pattern
21. On a bright, sunny day, Manny leaves a d adjust to the sudden increase in light.a. ganglion cellsb. foveac. pupilsd. optic nerves	imly-lit movie theater and goes out i	into the street. The in his eyes
ANSWER: c		
22. Which of the following is true of Weber's a. Weber's constant for pitch is 1/444.b. Weber discovered that the threshold for c. Weber's constant is not valid for noticing d. Weber's constant for light is inaccurate.	or perceiving differences in the intensing differences in lifted weight.	
ANSWER: d	when extremely engine of dail figure	s are compared.
23is the type of sensory adaptatea. Negative adaptationb. Light adaptationc. Dark adaptationd. Positive adaptation	ion in which we become less sensitiv	ve to constant stimuli.
ANSWER: a		
24. In the context of pain, which of the follow a. Pain is usually sharpest where nerve end b. Headaches originate through nerve end c. Pain does not reverberate throughout the	ndings are densely packed. dings present in the brain.	

d. Modern research shows that acupuncture works by balancing the body's flow of energy.

ANSWER: a

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
25. Which of the following is the function of	the iris?	
a. Regulating the amount of light that ent	ers the eye	
b. Conducting sensory input to the brain		
c. Transmitting perception of color to the	brain	
d. Distinguishing between warm and coo	colors	
ANSWER: a		
26. The loudness of a sound is expressed in _	·	
a. hertz (Hz)		
b. decibels (dB)		
c. watts (W)		
d. volt (V)		
ANSWER: b		
27. In the context of color blindness, which of	The following statements is true?	
a. Dichromats are sensitive to black-white	e and either red-green or blue-yello	ow colors.
b. Monochromats have normal color vision	on.	
c. Dichromats are sensitive to red-green,	blue-yellow, and light-dark colors.	
d. Trichromats are partially colorblind.		
ANSWER: a		
28 is a monocular cue for depth based	on the coming together of parallel li	nes as they recede into the distance.
a. Motion parallax		
b. Texture gradient		
c. Perspective		
d. Constancy		
ANSWER: c		
29. Which of the following best describes psy	chokinesis?	
a. It refers to the perception of objects that	at do not stimulate the known sensor	y organs.
b. It refers to the direct transmission of the	oughts or ideas from one person to a	another.
c. It refers to the ability to mentally mani	pulate or move objects.	
d. It refers to the transfer of information t	hrough an irregular or unusual proce	ess.
ANSWER: c		
30. Which of the following statements is true	of the absolute threshold?	

- a. It is determined by exposing individuals to progressively stronger stimuli until the minimum stimuli the person can detect is found.
- b. It is used to represent the minimum difference in the magnitude of two stimuli required to tell them apart.
- c. It is used to measure the intensity of sensory input by using the sensory adaptation process.
- d. It is determined by measuring the rate at which a person becomes less sensitive to stimuli of low magnitude and more sensitive to stimuli that remain the same.

ANSWER: a

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
is best described as the stime central nervous system. a. Desensitization b. Reinforcement c. Sensation	ulation of sensory receptors and the tra	Insmission of sensory information to the
d. Sensory cessation ANSWER: c		
a. optic nerve b. cornea c. lens d. sclera ANSWER: a	to the brain, where it is relayed to the v	isual area of the occipital lobe.
a. The clearness of an object cannot sug b. Shadows and highlights give informa c. Closer objects are perceived as havin d. Distant objects stimulate smaller area	ggest its distance. ation about an object's two-dimensional ag smoother textures than distant object	-
ANSWER: d	·	
34. According to the law of, the a. continuity b. proximity c. common fate d. similarity	ere is a tendency to perceive a series of	points or lines as having unity.
ANSWER: a		
35 is the tendency to perceive an obj ntensity.a. Shape constancy	ect as being just as luminous even thou	igh lighting conditions change its
b. Brightness constancy		
c. Color constancy		
d. Size constancy		
ANSWER: b		
36. Which of the following statements is tru	e of the signal–detection theory?	
 a. The signal received from an unidenti the source. 	fied source cannot be perceived withou	t having prior knowledge about
b. A stimulus appears to be in constant any sensory input.	flux due to the inability of human sense	es to perceive the full spectrum of

c. The relationship between a physical stimulus and a sensory response is fully mechanical.

d. The intensity of a signal is one factor that determines whether people will perceive sensory stimuli or a

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
ANSWER: d		
37refers to the tendency to perce	ive a broken figure as being complete	e or whole.
a. The principle of closure		
b. The law of common fate		
c. The principle of perceptual organization	n	
d. The law of continuity		
ANSWER: a		
38. Which of the following is true of feature d	etectors?	
a. They are external stimuli that have a hi		
b. They refer to neurons that fire in respon	ise to specific features of sensory stin	nuli.
c. They refer to visible light that triggers	visual sensations.	
d. They refer to hormones that are triggere	ed in response to visual stimuli.	
ANSWER: b		
39. The process of adjusting to conditions of le	ower lighting by increasing the sensiti	ivity of rods and cones is known as
a. negative adaptation		
b. dark adaptation		
c. desensitization		
d. saturation		
ANSWER: b		
40is the sense of equilibrium tha	t informs us about our bodies' position	ns relative to gravity.
a. Extrasensory perception	-	
b. The vestibular sense		
c. The olfactory sense		
d. Kinesthesis		
ANSWER: b		
41. In the context of sound, which of the follo	wing is true?	
a. The pitch of a sound roughly correspon	_	nd waves.
b. The greater the number of cycles per se		
c. The frequency and amplitude of a soun		
d. The pitch of a sound is expressed in dec	-	
ANSWER: b	,	
42 is the tendency to perceive an objec	t as being the same hue even though l	lighting conditions change its
appearance.		
a. Size consistency		
b. Color consistency		
c. Shape consistency		
d. Brightness consistency		

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
ANSWER: b		
43. Stimuli suggestive of depth that involve sa. monocular cuesb. positive cuesc. binocular cuesd. negative cues	simultaneous perception by both eyes are kno	own as
ANSWER: c		
44. The colors across from one another on the a. complementary colorsb. supplementary colorsc. auxiliary colorsd. secondary colors ANSWER: a	e color wheel are labeled	
45 Exposure to year, loud sounds can lead to	domage of the auditomy names on bein calle in	acceltina in
45. Exposure to very loud sounds can lead toa. conductive deafnessb. sensorineural deafnessc. tympanosclerosisd. perichondritis	damage of the auditory herve of half cens, is	esuiding in
ANSWER: b		
•	e sound waves with our neural impulses	
47. In paople tend to be more respons	rive to some nitches then others	
47. In, people tend to be more respons a. conductive deafness b. sensorineural deafness c. selective deafness d. mixed deafness	sive to some pitenes than others.	
ANSWER: b		
48. While looking at a painting in an art galle angles, while others fire in response to specifia. pitch detectors b. feature detectors c. sensory adaptors d. olfactory nerves		
ANSWER: b		

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
49. Which of the following theories proposed to red, green, and blue?	that there are three types of color re	eceptors, but they are not sensitive only
a. The opponent–process theory		
b. The signal–detection theory		
c. The trichromatic theory		
d. The place theory		
ANSWER: a		
50. Within the eye, visual acuity is greatest at	the	
a. iris		
b. lens		
c. fovea		
d. blind spot		
ANSWER: c		
51. Which of the following statements is true	of hue?	
a. It can be used to treat color blindness.		
b. It is present above the visible spectrum	ı of light.	
c. It is invariably the same as the saturati	on level of color.	
d. It is determined by the wavelength of	visible light.	
ANSWER: d		
52. The cones are most densely packed in a st	mall spot at the center of the retina	called the
a. cornea		
b. iris		
c. sclera		
d. fovea		
ANSWER: d		
53. Theadjusts or accommodates	to an image by changing its thickness	ess.
a. cornea		
b. pupil		
c. iris		
d. lens		
ANSWER: d		
54 is the fraction of the intensity by w difference in intensity will be perceived.	hich a source of physical energy mu	ust be increased or decreased so that a
a. Subliminal stimulation		
b. The absolute threshold		
c. Weber's constant		
d. Newton's constant		
ANSWER: c		

Name:	Class:	Date:
Chapter 3 - Sensation and Perceptio	<u>on</u>	
55. Which of the following monocular a. Clearness	cues is based on the perception that closer of	objects appear to have rougher surfaces?
b. Proximity		
c. Motion parallax		
d. Texture gradient		
ANSWER: d		
56. The pain message is relayed from a us aware of the location and intensity a. cerebrum	the spinal cord to theand then prof the damage.	rojected to the cerebral cortex, making
b. medulla		
c. ganglions		
d. thalamus		
ANSWER: d		
	y, she was invited to an exhibition of Persian e surfaces of different pieces of fabric to get	
a. subliminal stimulation		
b. active touching		
c. light adaptation		
d. sensory adaptation		
ANSWER: b		
psychological factors.	rception of sensory stimuli involves the inter	raction of physical, biological, and
a. Opponent–process theory		
b. Trichromatic theory		
c. Signal–detection theory		
d. Frequency theory		
ANSWER: c		
	f cars moving together on the road. His first perceptual organization best explains Jeff's a	
b. The law of similarity		
c. The law of continuity		
d. The law of common fate		
ANSWER: d		
60. We learn to perceive objects that a of	ppear to move with us as being at greater dis	stances due to the phenomenon
a. motion parallax		
b. reverse motion		
c. size constancy		

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
d. shape constancy		
ANSWER: a		
our eyes.	ganize or make sense of the sensory impres	sions caused by the light that strikes
a. Visual perception		
b. Subliminal stimulation		
c. Subliminal perception		
d. Auditory stimulation ANSWER: a		
	e the ear that vibrates in response to sound v	vaves.
ANSWER: b		
63. Nearsightedness can result when the a. nearby objects are focused behind b. distant objects are focused in from c. nearby objects are magnified to to d. distant objects are shrunk to less to ANSWER: b	nt of the retina. wice their original size.	f:
64. According to the law of, a. similarity b. proximity c. common fate d. continuity ANSWER: b	, there is a perceptual tendency to group tog	ether objects that are near one another.
65. Which of the following senses is dona. Hearingb. Smellc. Visiond. Touch ANSWER: c	ninant in human beings?	
66. Amy and George were practicing a s	ong for a cultural program. Their music teacould be a reason for the music teacher's dec	

a. A woman's vocal cords are usually shorter and vibrate at a greater frequency.

b. The pitch of a man's voice is usually too high to resonate.

Name:	Class:	Date:
Chapter 3 - Sensation and Perce	eption_	
	orter and therefore vibrate at a lower frequency. es is usually lower than that of men's voices.	
ANOWEN. a		
67. Which of the following is a fu a. To stimulate the basilar me b. To decrease the pressure of c. To funnel sound waves to t	embrane f the air that is expelled from the body	
d. To increase the pressure of ANSWER: d	the air entering the ear	
68. Which of the following fraction a. 1/60th b. 1/53rd c. 1/333rd d. 1/10th	ons is known as Weber's constant for light?	
ANSWER: a		
a. cerebellum stellate cellsb. ganglionsc. nociceptorsd. unipolar neurons	edin the skin are stimulated.	
ANSWER: c		
this condition tend to be more sen a. Sensorineural deafness b. Selective hearing c. Conductive deafness	m damage to the structures of the inner ear, most o sitive to some pitches than others.	ften the loss of hair cells. People with
d. Discriminatory perception ANSWER: a		
ANSWER. a		
71 refers to the perception a. The vestibular sense b. Clairvoyance c. The kinesthetic sense d. Psychokinesis ANSWER: b	of objects that do not stimulate the known sensory	y organs.
• •	ganization, which of the following statements is tr ntinuity, elements seen moving together are percei	

b. According to the law of proximity, we perceive similar objects as belonging together.

c. Bottom-up processing is the use of contextual information or knowledge of a pattern to organize parts of the

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Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
pattern at a given point in time.		
d. When figure–ground relationships are a perceptions tend to be unstable and shift		preted in various ways, our
ANSWER: d		
73. In the context of the eye, changes in thickne	ess of the lens permit:	
a. a clear image of an object to be projecte	ed onto the retina.	
b. the pupil to automatically adjust to the a	amount of light present.	
c. the fovea to stimulate the blind spot to n	negate visual stimulation.	
d. an object to intensify the wavelength of	its hue for better perception.	
ANSWER: a		
74. In which of the following conditions do rec	ceptors for warmth fire?	
a. When skin temperature increases		
b. When body temperature decreases		
c. When nociceptors in the skin are depres	ssed	
d. When phantom limb pain is aroused		
ANSWER: a		
75. Visual stimuli can be flashed too briefly, be	elow our absolute threshold for cons	scious perception, to enable us to
process them. This is an example of	<u>_</u> .	
a. subliminal stimulation		
b. the difference threshold		
c. light adaptation		
d. dark adaptation		
ANSWER: a		
76. Amy accidentally hit her elbow against the Amy's pain subsided. Which theory would best		ed to her and rubbed the affected elbow.
a. The signal–detection theory		
b. The place theory		
c. The gate theory		
d. The opponent-process theory		
ANSWER: c		
	ncient Greek words for "motion" and	d "perception".
a. kinesthesis		
b. psychokinesis		
c. clairvoyance		
d. telepathy		
ANSWER: a		

78. In the context of auditory perception, which of the following statements is true?

a. The frequency theory holds that the pitch of a sound is sensed according to the place along the basilar membrane that vibrates in response to it.

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
b. The place theory notes that for us to power waves with our neural impulses.	erceive lower pitches, we need to ma	tch the frequency of the sound
 Neurons that carry auditory signals can the axons. 	nnot fire more than 100 times per sec	cond due to the uneven lengths of
 d. The frequency theory appears to account second. 	ant only for pitch perception between	20 and a few hundred cycles per
ANSWER: d		
79. Thestates that in response to second, groups of neurons take turns firing to a. frequency theory b. closure principle		
c. volley principle		
d. place theory		
ANSWER: c		
80. The perception of objects or events throug a. subliminal perception b. psychokinesis	gh means other than the recognized so	ensory organs is termed
c. kinesthesis		
d. extrasensory perception		
ANSWER: d		
81. The oval window transmits vibrations into	o the inner ear, the bony tube called t	he .
a. incus		 -
b. malleus		
c. cochlea		
d. eardrum		
ANSWER: c		
82. In the context of the human eye, the size of	of the is sensitive to an in	dividual's emotions.
a. retina		
b. pupil		
c. optic nerve		
d. cornea		
ANSWER: b		
83. The considers the psychological fa a. trichromatic theory	ctors that influence people and their	sense of perception.
b. opponent-process theory		
c. signal-detection theory		
d. frequency theory		
ANSWER: c		
84. The axon bundle that transmits neural imp	oulses from the organ of Corti to the	brain is known as the
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Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
a. cochleab. basilar membranec. Eustachian tubed. auditory nerve ANSWER: d		
85. Why do the two lines in the Müller–Lyer is length? a. Due to the principles of perceptual orgounds b. Due to the principles of the perception c. Due to the principles of color consister d. Due to the principles of depth consister ANSWER: a	anization of motion ncies	ngths even though they are the same
86. The process of becoming more sensitive to a. negative adaptation b. retinal disparity c. sensitization d. saturation ANSWER: c	o stimulation is known as	
a. The olfactory sense b. Clairvoyance c. Telepathy d. The vestibular sense	g and provides cues to whether our	body is changing speed.
88. A person with normal color vision is label a. bichromat b. dichromat c. trichromat d. monochromat ANSWER: c	ed a	
89. Despite being blind, Brian has never had a accurately judge the position and motion of hi eating quite normally. Which of the following a. Psychokinesis b. Kinesthesis c. Telepathy d. Clairvoyance ANSWER: b	s body parts, and thus, he is able to	perform activities such as walking and

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
90. Which of the following statements is true of rod of	cells in the retina of the eye?	
a. They transmit sensory information from the b	•	
b. They transmit the sensation of color.		
c. They are most dense toward the periphery of t	the retina.	
d. They are sensitive only to the intensity of ligh		
ANSWER: d		
91. Once light passes through the iris, it encounters the	he	
a. pupil		
b. lens		
c. cornea		
d. sclera		
ANSWER: b		
92. A(n)is the lingering visual impressio	on made by a stimulus that has been rem	oved.
a. scotoma		
b. blind spot		
c. afterimage		
d. illusion		
ANSWER: c		
93is associated with extrasensory perce	eption.	
a. Subliminal perception		
b. Psychokinesis		
c. Kinesthesis		
d. Acupuncture		
ANSWER: b		
94. Vibrations in the fluids within the chambers of th	ne inner ear press against the	_•
a. auditory nerve		
b. basilar membrane		
c. cochlea		
d. oval window		
ANSWER: b		
95. Which of the following is contained in the middle	e ear?	
a. The auditory nerve		
b. The organ of Corti		
c. The basilar membrane		
d. The eardrum		
<i>ANSWER:</i> d		

96. When Anna moved to her new apartment, she found it very difficult to sleep because of the traffic noise in the neighborhood. However, she gradually became accustomed to the sound of the vehicles as days progressed, and now the

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
noise outside no longer disturbs her sleep. To a. negative adaptation b. light adaptation	his scenario illustrates an instance of _	
c. sensitization		
d. dark adaptation		
ANSWER: a		
97. How do pigments gain their colors?		
a. By creating a reflective surface that c	hanges its wavelengths to match the co	olor of the surroundings
b. By increasing the value of the colors	_	_
c. By producing visual impression of a s	stimulus that has been removed from the	ne color spectrum
d. By absorbing light from certain segm	ents of the spectrum and reflecting the	rest
ANSWER: d	,	
98. Which of the following scenarios illustra	ates subliminal stimulation?	
a. Caleb who initially found his classroo	om too bright eventually became accus	tomed to the brightness.
b. While driving down a highway, Debo	orah perceived the objects outside to be	moving faster than her car.
 c. In a restaurant, several mirrors were a spacious despite it being small. 	arranged in such a way that the restaura	ant appeared to be large and
d. In an experiment, an audio track was	played at such a low volume that the p	articipants were not aware of it.
ANSWER: d		
99. Andy is a professional skydiver. During the earth's gravity without really having to lonis fall to regulate his momentum. The sense a. vestibular sense	ook around him. This allows him to adj	ust his position appropriately during
b. kinesthetic sense		
c. precognitive sense		
d. telepathic sense		
ANSWER: a		
100. Which of the following terms denotes a a. Depth perception	a trick of perceptual constancies on the	eye?
b. Retinal disparity		
c. A visual illusion		
d. An absolute threshold		
ANSWER: c		
101. The retina consists of cells calleda. nephrons	_ that are sensitive to light.	
b. photoreceptors		
c. keratinocytes		
d. melanocytes		

ANSWER: b

Name:	Class:	Date:
Chapter 3 - Sensation and Perception		
102. As part of a study in auditory perception, put on their headphones, they almost couldn't headphones clearer. This is an example of a. sensitization b. subliminal stimulation		
c. retinal disparity		
d. pitch increase		
ANSWER: a		
103. Which of the following is a new basic tasta. Koshoob. Sweetc. Bitterd. Umami	te that was recently added to the prin	mary taste qualities?
ANSWER: d		
104. The part of the electromagnetic spectrum a. visible light b. cosmic rays c. ultraviolet rays d. the visual field ANSWER: a	that stimulates the eye and produces	s visual sensations is known as
105. Shannon is observing a painting. She percobject as a three-dimensional sphere. Which of		

- a. Convergence
- b. Shadowing
- c. Retinal disparity
- d. Shape constancy

ANSWER: b

106. In the context of the difference threshold, identify the correct statement.

- a. Weber's constant is especially accurate when comparing extremely bright or extremely dull lights.
- b. On average, people can tell when a tone rises or falls in pitch by an extremely small one-third of 1 percent.
- c. On average, people can detect differences in saltiness of less than 10 percent.
- d. Ernst Weber discovered through laboratory research that the threshold for perceiving differences in the intensity of light is about 20 percent of their intensity.

ANSWER: b