Chapter 2 The Physiology and Psychology of Pain

Multi _I Identif	•	Choice e choice that best completes the statement or answers the question.
	1.	 Which statement best describes nociception? A. Nociception must be interpreted as pain by higher brain centers. B. Nociception is a neuropsychological process that must be interpreted as pain. C. Nociception describes an unpleasant sensation. D. Nociception is the neural process of encoding and processing noxious stimuli.
	2.	Which of the following dimensions of pain perception localize the source and type of pain? A. Effective-terminal B. Sensory-discriminative C. Cognitive-evaluative D. Affective-motivational
	3.	Pain threshold is often based on the recruitment of fibers. A. A-delta B. A-beta C. C D. COX-1
	4.	Memories of past experiences are a component that creates one's "pain filter." Where do these memories come from? A. Limbic system B. Cerebral cortex C. Somatosensory system D. Thalamus
	5.	What best defines pain that is produced from a normally nonpainful stimulus? A. Hyperesthesia B. Hyperalgesia C. Primary hyperalgesia D. Primary hyperesthesia
	6.	In pain control theory, which is considered a secondary pain control approach? A. Target the perception of pain B. Resolve physiological pain triggers C. Decrease mechanical irritation D. Decrease chemical irritation
	7.	Which scenario will result in a closing of the gate, thus inhibiting the pain signal from getting to the second-order neuron? A. Large-diameter afferent traffic is greater than small diameter. B. Small-diameter afferent traffic is greater than large diameter. C. Increase speed of small-diameter afferent transmission. D. Increase speed of large-diameter afferent transmission.
	8.	Damage to the diaphragm can result in referred pain to the skin and muscles of theA. neck and shoulder B. lower back

		C. thigh and kneeD. anterior thorax
	9.	Which therapeutic modality has the ability to alter cell membrane permeability and thus alter the rate of nerve depolarization? A. Cold packs B. Therapeutic ultrasound C. Electrical stimulation D. Intermittent compression
	10.	Which inflammatory pain mediator is released by mast cells to directly stimulate nociceptors? A. Bradykinins B. Prostaglandin C. Substance P D. Histamine
	11.	What mechanoreceptor is located deeper in the skin and reacts to higher levels of mechanical pressure? A. Merkel's disks B. Meissner's corpuscles C. Pacinian corpuscles D. Ruffini corpuscles
	12.	What does the verbal rating scale use to represent the current pain intensity of a patient? A. 10-cm line B. Different faces C. Numbers 1 through 10 D. Descriptive terms
	13.	Regarding pain control, the primary action of NSAIDS is to block the action of what inflammatory pain mediator? A. Bradykinins B. Prostaglandin C. Substance P D. Histamine
	14.	What substance is released by the body and reduces the perception of pain by bonding to pain receptor sites? A. Serotonin B. Enkephalin C. Mast cells D. Tract cells
	15.	What pain-decreasing medication temporarily blocks nerve conduction, thus resulting in the loss of sensation? A. Aspirin B. Lidocaine C. Endorphin D. Propoxyphene
_	_	Response e or more choices that best complete the statement or answer the question.
	1.	Which therapeutic modalities can provide mechanical pain reduction by removing swelling, restoring joint motion, decreasing pressure on nerve endings, and restoring blood flow? <i>Select all that apply</i> .

	 A. Intermittent compression B. Continuous passive motion C. Shortwave diathermy D. Electrical stimulation E. Cervical/lumbar traction
2.	 Which statements are true regarding the afferents responsible for transmitting pain? Select all that apply. A. The fibers that transmit pain are A-beta and C fibers. B. The fibers are heavily myelinated. C. A-delta fibers give ability to localize pain to a specific spot. D. Both types of fibers respond to mechanical pressure and temperature extremes. E. Pain originating from C fibers is referred to as "fast" pain.
 3.	Which of the following are examples of mechanical stimuli that can trigger peripheral nociceptors? <i>Select all that apply</i> . A. Thermal changes associated with the inflammatory response B. Direct-force trauma C. Release of prostaglandins from trauma D. Pressure from swelling
 4.	Which of the following are associated with pain tolerance? Select all that apply. A. Limbic system B. C fibers C. Cortex D. A-delta fibers E. Thalamus
 5.	Which statements are true regarding the definition of pain? Select all that apply.A. Pain is an unpleasant sensory and emotional experience.B. Pain is associated only with actual tissue damage and not potential damage.C. Pain is always an emotional experience.

D. Acute pain has an identifiable cause and extended duration.

E. Pain is just a simple sensation and not a process.

Chapter 2 The Physiology and Psychology of Pain Answer Section

MULTIPLE CHOICE

1.	ANS:	D	PTS:	1
2.	ANS:	В	PTS:	1
3.	ANS:	A	PTS:	1
4.	ANS:	A	PTS:	1
5.	ANS:	A	PTS:	1
6.	ANS:	A	PTS:	1
7.	ANS:	A	PTS:	1
8.	ANS:	A	PTS:	1
9.	ANS:	В	PTS:	1
10.	ANS:	D	PTS:	1
11.	ANS:	C	PTS:	1
12.	ANS:	D	PTS:	1
13.	ANS:	A	PTS:	1
14.	ANS:	В	PTS:	1
15.	ANS:	В	PTS:	1

MULTIPLE RESPONSE

1.	ANS:	A, B, E	PTS:	1
2.	ANS:	C, D	PTS:	1
3.	ANS:	B, D	PTS:	1
4.	ANS:	A, B, C	PTS:	1
5.	ANS:	A, C	PTS:	1