Chapter 1 The Injury Response Process

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____1. Which is an accurate statement regarding the effect of modalities and the healing process?
 - A. Modalities attempt to provide the optimal environment for healing to occur.
 - B. Most modalities can speed up the healing of an injury.
 - C. Modality devices are primarily used to alter the body's psychological status to provide a good healing environment.
 - D. The stage of the healing process does not influence which modality is used.
- 2. According to the physical stress theory, what changes will result from a physical stress that is categorized as none to low?
 - A. Cell death
 - B. Decreased tolerance
 - C. Increased tolerance
 - D. Injury
 - _ 3. What type of tissue is devoid of blood vessels and is able to secrete and absorb various substances?
 - A. Epithelial
 - B. Muscle
 - C. Adipose
 - D. Connective
 - 4. According to the general adaptation syndrome, what is the correct order of the three stages of stress response?
 - A. Alarm, resistance, exhaustion
 - B. Resistance, alarm, excitement
 - C. Exhaustion, excitement, alarm
 - D. Resistance, exhaustion, excitement
- 5. What segment of a neuron is responsible for transmitting impulses toward the nerve body?
 - A. Dendrites
 - B. Axons
 - C. Electrical synapses
 - D. Chemical synapses
 - _ 6. What is the longest stage of the general adaptation syndrome?
 - A. Alarm
 - B. Resistance
 - C. Exhaustion
 - D. Excitement
- 7. In what tissue order must the different forms of therapeutic energy pass through to affect the target tissues?
 - A. Epithelial, adipose, muscular, nervous, connective
 - B. Epithelial, nervous, adipose, muscular, nervous
 - C. Epithelial, connective, nervous, muscular, adipose
 - D. Epithelial, adipose, connective, muscular, nervous
- 8. What type of tissue is the most abundant in the body?
 - A. Epithelial
 - B. Muscle

- C. Adipose
- D. Connective
- 9. During the healing process, when do you see the formation of granulation tissue and the migration of phagocytes and fibroblasts to the injured area?
 - A. Acute inflammatory response
 - B. Proliferation phase
 - C. Maturation phase
 - D. Chronic inflammatory response
- 10. In order to maximize the effect of gravity on the venous return system, a limb should be placed at a
 - ______to the heart. A. 0 degree or horizontal angle
 - B. 90 degree angle above horizontal
 - C. 30 degree angle above horizontal
 - D. 60 degree angle above horizontal
- _____ 11. What type of afferent peripheral nerve is a muscle spindle?
 - A. Ia
 - B. Ib
 - C. II
 - D. III
- 12. What neurotransmitter is located in the brainstem and will increase blood pressure and cardiac output?
 - A. Dopamine
 - B. Epinephrine
 - C. Norepinephrine
 - D. Serotonin
- 13. There are three potential outcomes of the injury process. What best describes the regeneration outcome?
 - A. The original tissue is replaced with scar tissue.
 - B. The structure's original structure and function is lost.
 - C. The structure retains some or all of its original structure and function.
 - D. Dead cells and cellular debris are removed by phagocytosis.
- _____ 14. What type of exudate is a plasma-rich fluid that is especially high in plasma protein?
 - A. Fibrinous
 - B. Serous
 - C. Purulent
 - D. Ulcer
- _____ 15. Application of which modality will result in the greatest rate of femoral vein flow?
 - A. Passive straight-leg raises
 - B. Anatomic continuous passive motion
 - C. Pneumatic sleeve
 - D. Active ankle dorsiflexion

Multiple Response

Identify one or more choices that best complete the statement or answer the question.

- 1. In what tissues are labile cells found? *Select all that apply*.
 - A. Bone

- B. Peripheral nervous system
- C. Skin
- D. Intestinal tract
- E. Central nervous system
- 2. According to the practical evidence, what are the primary uses for compression wraps? Select all that apply.
 - A. Increase venous return
 - B. Reduce acute hemorrhage
 - C. Prevent venous pooling
 - D. Reduce secondary cell death
 - 3. Which events occur during the proliferation phase? *Select all that apply.*
 - A. Removal of debris and temporary repair tissue
 - B. Formation of a temporary vascular framework
 - C. Release of histamine to increase cell permeability
 - D. Norepinephrine is released, causing vasoconstriction of arterioles
 - E. Collagen aligns and attempts to adapt to the preinjury orientation
 - 4. Which of the following represents macrotrauma? Select all that apply.
 - A. Sprain
 - B. Stress fracture
 - C. Muscle soreness
 - D. Fracture
 - E. Strain
- 5. Which of the following characteristics describe type 1 muscle fibers? *Select all that apply*.
 - A. Fast twitch
 - B. Slow twitch
 - C. Low intensity
 - D. Aerobic
 - E. Anaerobic

Chapter 1 The Injury Response Process Answer Section

MULTIPLE CHOICE

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

MULTIPLE RESPONSE

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