

Answer Key

Chapter 1

STOP, THINK, UNDERSTAND (p. 14)

Multiple Choice

1. b (p. 8)
2. d (p. 27)
3. b (p. 6)
4. d (p. 15)

Short Answer

1. River guides, bike patrollers, law enforcement personnel, mountain guides, personnel of various government agencies. (p. 7)
2. The Tenth Mountain Division was a mountain warfare unit in World War II. The division came into being after "Minnie" Dole convinced General George C. Marshall of the value of a winter warfare unit. Thus, the NSP became the only civilian agency ever authorized to recruit for the armed forces, getting seven volunteers. In 1944 the "Tenth" performed with distinction in combat in Italy. The ski run at Vail named Riva Ridge honors the men who participated in an assault in Italy. After the war many members of the "Tenth" came home and became leaders in the ski industry. (p. 4)

STOP, THINK, UNDERSTAND (p. 26)

Multiple Choice

1. c (p. 15)
2. d (p. 23)
3. d (p. 21)
4. b (p. 22)

Short Answer

1. Good Samaritan laws are designed to encourage volunteer rescuers to provide first-aid care without fear of being held liable for their actions. (p. 15)
2. *Standard of training* is the minimum level of training taught in NSP's Outdoor Emergency Care program. (p. 20) *Standard of care* includes the training set forth in the OEC text but also includes (but may not be limited to) an area's local protocols; a state's emergency medical services restrictions, laws, and procedures; and the geographic area and circumstances in which the rescuer is located. (p. 21)

Matching

1. c (p. 17)
2. d (p. 18)
3. b (p. 23)
4. e (p. 18)
5. a (p. 17)
6. f (p. 18)
7. g (p. 18)

CHAPTER QUESTIONS (p. 27)

Multiple Choice

1. b (p. 19)
2. c (p. 11)
3. a (p. 8)
4. c (p. 17)
5. a (p. 22)

Short Answer

1. (any 10 of the following) assess safety and maintain it at a rescue scene; use proper body substance isolation techniques; assess a patient's level of responsiveness; establish and maintain an airway; assess respiration and provide adequate ventilation; provide oxygen when necessary; assess perfusion of blood to the body's tissues; control bleeding; identify and care for life-threatening problems, including shock; obtain a medical history of the patient; assess and provide specific care for different injuries; assess and provide care for medical illness; understand the assessment and treatment nuances in special populations; be able to splint or immobilize various body parts, including the spine; learn the concept of triage, and be able to help in a mass-casualty incident; be able to use rescue equipment, and pack your rescue pack appropriately; understand your role in prehospital care; be able to document care rendered in a way all medical personnel can understand; understand your ski area management's needs and interface with management; be able to identify the names of common medications and describe their basic actions. (p. 10)
2. To maintain your OEC certification, you must complete an annual OEC refresher course. Each year the NSP develops a continuing education program that enables OEC technicians to "refresh" their knowledge and skills. One-third of the curriculum is presented each year. Refreshers are primarily a "hands-on" learning experience, allowing the OEC Technician to demonstrate proficiency in the skills needed to care for a patient. Upon successful completion of the refresher *each subsequent year* after completion of a full OEC course, the OEC Technician maintains the certification for another year. The refresher is developed annually by the NSP OEC Refresher Committee, and the curriculum is provided to NSP instructors. (p. 11)

Scenario

1. c (p. 21)
2. b (p. 15)
3. d (p. 12)
4. a (p. 17)
5. d (p. 20)
6. a (p. 17)

Chapter 2

STOP, THINK, UNDERSTAND (p. 44)

Multiple Choice

1. d (p. 40)
2. b (p. 42)
3. d (p. 35)
4. a (p. 40)

Short Answer

1. (any six of the following) integration of health services; research; legislation and

regulation; system finance; human resources; medical direction; education system; public education; prevention; public access; communication system; clinical care; information systems; evaluation (pp. 35–36)

2. Continuity of care is the seamless delivery of high-quality emergency medical care as patients transition from their initial contact with a first responder through definitive treatment. (p. 41)

CHAPTER QUESTIONS (p. 52)

Multiple Choice

1. a (p. 47)
2. b (p. 50)
3. a (p. 46)
4. d (p. 49)
5. c (p. 49)
6. c (p. 48)
7. a (p. 48)
8. b (p. 32)
9. d (p. 38)

Matching

1. 1. c, f (p. 39)
2. a, g (p. 39)
3. e (p. 40)
4. b, d (p. 40)
2. 1. a, d (p. 50)
2. c, f (p. 50)
3. b, e (p. 50)

Labeling

- a. IO (p. 49)
- b. DO (p. 49)
- c. DO (p. 49)
- d. IO (p. 49)
- e. DO (p. 49)

Short Answer

OEC Technicians are an essential part of the emergency care system and provide emergency assistance and transportation to patients not served by traditional 911 providers. (pp. 51–52)

Scenario

1. c (p. 40)
2. c (p. 47)
3. a (p. 48)
4. c (p. 49)

Chapter 3

STOP, THINK, UNDERSTAND (p. 72)

Multiple Choice

1. d (p. 61)
2. a (p. 59)
3. b (p. 62)
4. b (p. 66)
5. d (p. 70)

Fill in the Blank

1. arm, leg (p. 62)
2. (any four of the following) inadequate sleep, poor nutrition, physical or emotional stress, alcohol abuse, chemotherapy, diabetes, smoking, steroid use, chronic infection (p. 63)
3. Cotton (p. 66)
4. warm, cold (p. 59)

Matching

1. d (p. 59)
2. a (p. 60)
3. c (p. 60)
4. b (p. 60)

STOP, THINK, UNDERSTAND (p. 83)**Multiple Choice**

1. c (p. 74)
2. b (p. 79)
3. a (p. 74)
4. c (p. 75)
5. d (p. 73)

Fill in the Blank

direct contact, indirect contact, airborne, ingestion, vector-borne (pp. 71–73)

Matching

1. d (p. 61)
2. e (p. 73)
3. a (p. 71)
4. e (p. 73)
5. c (p. 72)
6. d (p. 73)
7. a (p. 71)
8. b (p. 72)
9. b (p. 72)
10. c (p. 72)

CHAPTER QUESTIONS (p. 95)**Multiple Choice**

1. d (p. 76)
2. c (p. 59)
3. a (p. 62)
4. d (p. 57)
5. b (p. 90)
6. d (p. 82)
7. c (p. 94)
8. b (p. 71)
9. a (p. 77)
10. d (p. 86)
11. d (pp. 60–61)
12. a. X (p. 85)
b.
c. X (p. 85)
d.
e. X (p. 85)
f. X (p. 85)
g.
h. X (p. 85)
i.

Fill in the Blank

1. (any four of the following) waterproof matches, flashlight, carabiner, multipurpose

tool, sunblock, whistle, radio, cell phone, signal mirrors, map, compass (pp. 67–68)

2. The base layer is usually tight against the skin, helping to retain heat while allowing moisture to be transferred toward the exterior, a process known as wicking. (p. 66)
3. The middle layer serves as the insulating layer and helps to trap warm air. (p. 66)

Scenario

1. d (p. 66)
2. b (p. 67)

Chapter 4**STOP, THINK, UNDERSTAND** (p. 113)**Multiple Choice**

1. c (pp. 100–101)
2. d (p. 104)
3. b (pp. 98–99)

Fill in the Blank See Incident Command Structure below.

STOP, THINK, UNDERSTAND (p. 122)**Multiple Choice**

1. c (p. 120)
2. a (p. 114)
3. d (p. 120)
4. a (p. 114)

Matching

1. c (p. 115)
2. b (p. 115)
3. a (p. 115)
4. d (p. 115)

CHAPTER QUESTIONS (p. 123)**Multiple Choice**

1. b (p. 120)
2. d (p. 107)
3. a (p. 100)
4. d (p. 104)
5. b (p. 123)
6. a (p. 104)
7. d (p. 115)

Matching

1. a, e, g, j (p. 116)
2. c, i (p. 116)
3. b, f, h (p. 117)
4. d (p. 117)

Scenario

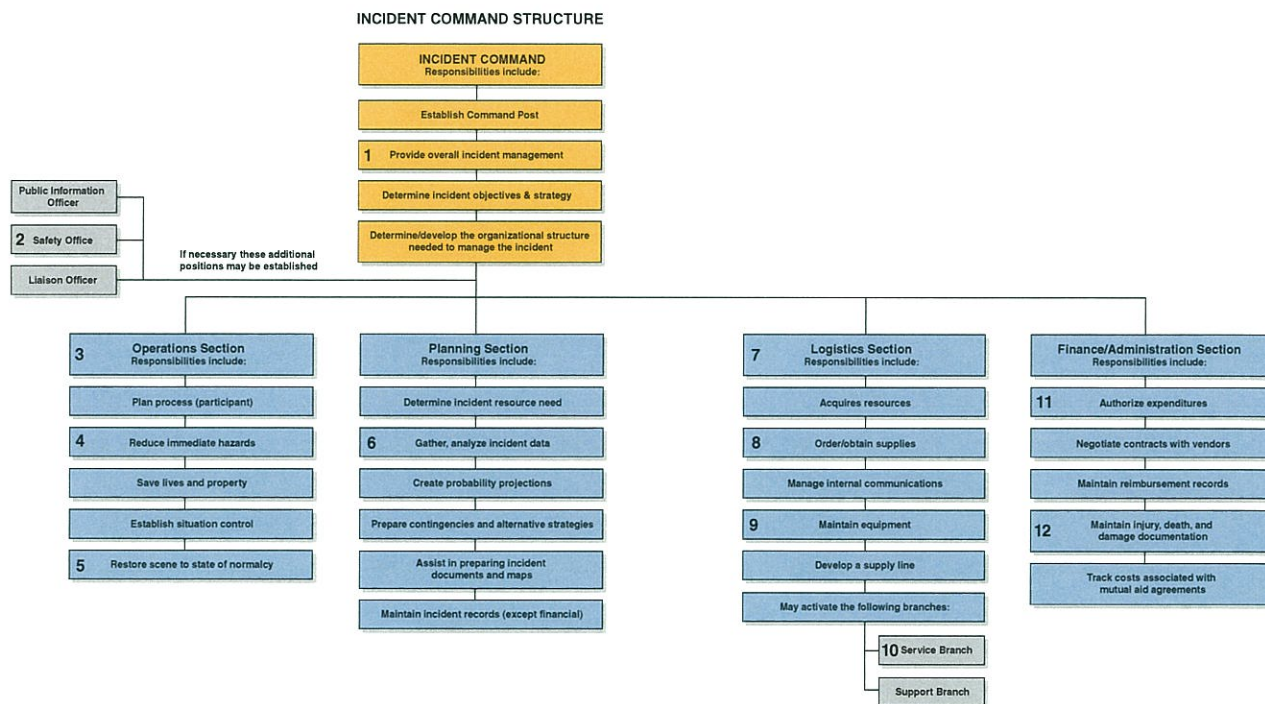
1. d (p. 104)
2. d (p. 104)
3. a (p. 120)
4. d (p. 116)
5. d (p. 116)
6. a (p. 117)
7. c (p. 116)

Chapter 5**STOP, THINK, UNDERSTAND** (p. 140)**Multiple Choice**

1. d (p. 128)
2. d (p. 130)
3. a (p. 130)
4. b (p. 136)
5. b (pp. 136–137)
6. c (p. 135)

Short Answer

1. How heavy is the object? What type of terrain is involved? Which carrying device will work best for the situation? (p. 129)
2. Does the patient have a suspected spinal injury? Does the patient need to be moved immediately? (p. 136)



Matching

1. e (p. 171)
2. h (p. 171)
3. a (p. 181)
4. c (p. 170)
5. i (p. 171)
6. b (This is not in text; ask your instructor.)
7. f (p. 171)
8. g (p. 170)
9. d (p. 171)
10. k (p. 199)
11. b (p. 191)
12. 1. c (p. 171)
2. b (p. 171)
3. a (p. 171)
4. e (p. 171)
5. d (p. 171)
3. 1. g (p. 176)
2. h (p. 191)
3. c (p. 187)
4. i (p. 195)
5. a (p. 206)
6. j (p. 199)
7. e (p. 183)
8. f (p. 201)
9. d (p. 174)
10. k (p. 199)
11. b (p. 191)
4. 1. d (p. 180)
2. b (p. 181)
3. c (p. 187)
4. a (p. 181)
5. 1. b (pp. 201–206)
2. a (p. 183)
3. e (p. 187)
4. c (p. 197)
5. d (p. 197)

Fill in the Blank

1. pelvic (p. 198)
2. a. X (p. 199)
- b.
- c. X (p. 199)
- d. X (p. 199)
- e. X (p. 199)
- f. X (p. 199)
- g.

Scenario

1. b (p. 169)
2. b (p. 171)
3. b (p. 146)
4. a (p. 189)

Chapter 7**STOP, THINK, UNDERSTAND** (p. 225)**Multiple Choice**

1. c (p. 215)
2. b (p. 217)
3. a (p. 218)
4. d (p. 218)
5. b (p. 220)
6. c (p. 220)
7. a (p. 220)
8. a (p. 222)
9. b (p. 222)
10. a (p. 223)
11. c (p. 224)

Fill in the Blank

1. breathing through pursed lips, flaring of nostrils on inspiration, tripodding, unequal movement of chest, rising and falling of shoulder muscles with each breath (p. 220)
2. alert, verbal, pain, unresponsive (p. 222)

STOP, THINK, UNDERSTAND (p. 236)**Multiple Choice**

1. d (p. 226)
2. a (p. 226)
3. all (p. 217)
4. a (p. 226)
5. d (p. 230)
6. b (p. 217)
7. c (p. 224)
8. c (p. 224)
9. a (p. 227)
10. all (p. 229)
11. e (p. 228)
12. c (p. 230)
13. a (p. 239)

Sequence

- a. 5 (p. 232)
- b. 1 (p. 230)
- c. 7 (p. 233)
- d. 6 (p. 232)
- e. 2 (p. 231)
- f. 3 (p. 231)
- g. 9 (p. 234)
- h. 4 (p. 230)
- i. 10 (p. 234)
- j. 11 (p. 234)
- k. 8 (p. 233)

Matching

1. b, d, e, f, h, i (p. 227)
2. a, c, g, j (p. 227)

STOP, THINK, UNDERSTAND (p. 247)**Multiple Choice**

1. a (p. 230)
2. c (p. 230)
3. c (p. 238)
4. d (p. 238)
5. d (p. 238)
6. all (p. 238)
7. d (p. 239)
8. d (p. 239)
9. a (p. 239)
10. a (p. 240)
11. b (p. 240)
12. c (p. 241)
13. c (p. 239)
14. a (p. 242)

Fill in the Blank

pulse pressure (pp. 239–240)

Matching

1. 1. b, d (p. 239)
2. a, c (p. 239)
2. 1. carotid c (p. 241)
2. femoral b (p. 241)
3. radial a (p. 241)

CHAPTER QUESTIONS (p. 260)**Multiple Choice**

1. a. X (p. 245)
- b. X (p. 245)
- c. X (p. 245)
- d. X (p. 245)
- e. X (p. 245)
- f. X (p. 245)
- g. X (p. 245)
- h. X (p. 245)
2. b (p. 246)
3. a (p. 215)
4. c (p. 215)
5. a (p. 235)
6. a (p. 238)
7. b (p. 240)
8. b (p. 240)
9. c (p. 242)
10. c (p. 242)
11. d (pp. 243–244)
12. a (p. 244)
13. a (p. 246)
14. c (p. 239)
15. a (p. 238)
16. b (p. 240)
17. d (p. 214)

Matching

1. e (pp. 222–223)
2. a (pp. 228–229)
3. b (p. 232)
4. d (pp. 226–228)
5. c (p. 230)
6. f (p. 218)

Scenario

1. d (p. 228)
2. a (p. 228)
3. d (p. 229)
4. a (p. 229)

Chapter 8**STOP, THINK, UNDERSTAND** (p. 281)**Multiple Choice**

1. c (p. 268)
2. b (p. 269)
3. d (p. 271)
4. a (p. 277)
5. d (p. 271)

Short Answer

1. to formulate an on-scene treatment plan, to assist in decisions about long-term care of the patient, to determine diagnosis and prognosis, and to reduce legal risks (p. 264)
2. to deliver a message in a manner that is understood by the recipient (p. 267)
3. oral, written, nonverbal (p. 267)
4. a specialized form of communication used to transmit health care-related data (p. 268)
5. [answers will vary] (p. 269)

CHAPTER QUESTIONS (p. 288)**Multiple Choice**

1. d (p. 279)
2. a (p. 279)
3. c (p. 278)
4. c (p. 284)
5. c (p. 273)
6. a (p. 265)
7. d (p. 272)

Short Answer

1. The patient's privacy must be protected. (p. 269)
2. (any four of the following) resort managers, insurers, patrol educators, medical advisors, patrol representatives (p. 269)

Fill in the Blank

FACTUAL-OEC: Facts, Accurate, Complete, Terms, Unbiased, Avoid slang, Legible/Legal, Organized, Error free, Checked (p. 278)

SAILER: Sex of patient, Age of patient, Incident chief complaint, Location of accident, Equipment needed, Resources needed (p. 269)

CHEATED: Chief complaint, History, Examination, Assessment, Treatment, Evaluation, Disposition (p. 278)

SOAP: Subjective, Objective, Assessment, Plan (p. 277)

Scenario

1. b (p. 270)
2. a (p. 270)
3. b (p. 278)
4. b (p. 279)
5. a (pp. 282–286)

Chapter 9**STOP, THINK, UNDERSTAND** (p. 294)**Multiple Choice**

1. c (p. 292)
2. a (p. 293)
3. a, e, f (pp. 298–299)
4. b (p. 294)

1202 ANSWER KEY**STOP, THINK, UNDERSTAND** (p. 301)**Multiple Choice**

- d (pp. 294–295)
- d (p. 295)
- a. This is correct
b. X (pp. 298–299)
c. X (pp. 298–299)
d. X (pp. 298–299)
e. This is correct
f. This is correct
- a. X (p. 295)
b. X (p. 295)
c. X (p. 295)
d. X (p. 295)
e. X (p. 295)
- a. X (pp. 297–300)
b. X (pp. 297–300)
c. X (pp. 297–300)
- a. X (pp. 295–300)
b. X (pp. 295–300)
c. X (pp. 295–300)

STOP, THINK, UNDERSTAND (p. 303)**Multiple Choice**

- d (p. 302)
- a. OPA (p. 301)
b. OPA (p. 301)
c. NPA (p. 301)
d. NPA (p. 300)
e. NPA (p. 301)
- f. OPA (p. 302)
g. OPA (p. 302)
h. NPA (p. 302)
i. NPA (p. 301)
j. NPA (p. 301)
k. NPA (p. 301)

Short Answer

The content for this answer appears after this question. When the patient begins to gag, when a more advanced airway adjunct is inserted by an ALS provider. (p. 304)

STOP, THINK, UNDERSTAND (p. 310)**Multiple Choice**

- a (p. 306)
- c (p. 306)
- d (p. 306)
- c (p. 306)
- d (p. 307)
- a (p. 307)
- c (p. 307)
- a (p. 308)
- b (p. 308)
- d (p. 308)
- a. X (p. 310)
b. X (p. 310)
c. X (p. 310)
d. X (p. 310)
e. X (p. 310)
f. X (p. 310)

STOP, THINK, UNDERSTAND (p. 316)**Multiple Choice**

- d (p. 315)
- c (p. 315)
- d (pp. 315–316)

Fill in the Blank

- nasal cannula, nonrebreather mask, bag-valve mask (p. 311)
- nail polish, cold weather, shock, carbon monoxide poisoning, low red blood cell count, device malfunction (p. 315)

CHAPTER QUESTIONS (p. 326)**Multiple Choice**

- b (p. 307)
- b (pp. 308–309) $[(1500 - 200) \times 0.16] / 15 \text{ LPM} = 13.9 \text{ minutes}$

Fill in the Blank

- a. jaw thrust (p. 295)
b. head-tilt, chin-lift (p. 295)
c. head-tilt, chin-lift (p. 295)
d. jaw thrust (p. 295)
e. head-tilt, chin-lift (p. 295)
f. jaw thrust (p. 295)
1. a, k (p. 298)
2. b, c, f, (p. 311)
3. d, g, h, j (p. 312)
4. e, g (p. 313)
5. i, l (p. 304)
6. i (p. 304)
- If encouraging the patient to use the mask fails, apply a nasal cannula. (p. 312)

Scenario

- c (p. 295)
- c (p. 303)
- a (p. 304)
- d (p. 302)

Chapter 10**STOP, THINK, UNDERSTAND** (p. 334)**Multiple Choice**

- a (p. 329)
- d (p. 330)
- b (p. 332)
- b (p. 332)
- a (p. 332)
- c (p. 332)
- d (p. 332)
- d (p. 333)

Matching

- d (p. 334)
- b (p. 332)
- c (p. 332)
- a (p. 333)

Fill in the Blank

failure of the circulatory system to maintain adequate blood flow, resulting in a state of inadequate tissue perfusion (p. 329)

STOP, THINK, UNDERSTAND (p. 343)**Multiple Choice**

- b (p. 338)
- b (p. 339)

Matching

1. c (p. 335)
2. a (p. 335)
3. b (p. 335)
1. a, i, l (p. 342)
2. c, d, h, j and k (p. 339)
3. b, e, g (p. 336)
4. f (p. 339)

Fill in the Blank

- compensated, decompensated, irreversible (p. 335)
- heart, blood vessels, blood (p. 331)
- hypovolemic, cardiogenic, distributive, obstructive (p. 337)

- a. X (p. 330)
b. X (p. 335)
c.
d. X (p. 335)
- e. X (p. 335)
f.
g. X (p. 335)

STOP, THINK, UNDERSTAND (p. 348)**Multiple Choice**

- a (p. 340)
- c (p. 341)
- b (p. 345)
- c (p. 345)
- d (p. 344)
- b (p. 344)
- d (p. 347)
- b (p. 347)
- c (p. 352)

Matching

- c, d (p. 341)
- a (p. 340)
- e, h (p. 339)
- f (p. 340)
- g, b (p. 336)

CHAPTER QUESTIONS (p. 352)**Multiple Choice**

- a and c are both correct (p. 335)

Matching

1. a, d, e, g (p. 342)
2. b, h (p. 342)
3. c, f (p. 342)
1. c (p. 345)
2. a (p. 345)
3. b (p. 345)
4. d (p. 345)

Fill in the Blank

- a. X (p. 344)
b. X (p. 344)
c.
d.
e.
f.
g.
2. a. X (p. 345)
b. X (p. 345)
c. X (p. 345)
d. X (p. 345)
- e.
f. X (p. 345)
g.
h. X (p. 345)
i. X (p. 345)
j. X (p. 345)
k. X (p. 345)
l. X (p. 345)
m.
n. X (p. 345)
o. X (p. 345)

Scenario

- a (p. 336)
- c (p. 335)
- b (p. 335)
- c (p. 335)
- d (p. 341)
- a (p. 347)

Chapter 11**STOP, THINK, UNDERSTAND** (p. 360)**Multiple Choice**

- d (p. 356)
- a (p. 358)
- b (p. 358)

Fill in the Blank

- brain stem, cerebellum, cerebrum (p. 356)
- insulin, glucagon (p. 358)

Matching

1. d (p. 356)
2. b (p. 356)
3. a (p. 356)
4. c (p. 356)

STOP, THINK, UNDERSTAND (p. 369)**Multiple Choice**

1. c (p. 360)

Fill in the Blank

1. a. G (p. 359)
b. G (p. 359)
c. F (p. 359)
d. G (p. 359)
e. F (p. 359)
f. F (p. 359)
g. F (p. 359)
h. G (p. 359)
i. G (p. 359)
2. a. Type 1 (p. 366)
b. Type 2 (p. 367)
c. Type 2 (p. 367)
d. Type 1 (p. 366)
e. Type 2 (p. 367)
f. Type 1 (p. 366)
g. Type 2 (p. 367)
h. Type 1 (p. 366)
i. Type 1, Type 2 (p. 366)
j. Type 2 (p. 367)
3. a. hypoglycemia (p. 367)
b. hyperglycemia (p. 368)
c. hypoglycemia (p. 367)
d. hyperglycemia (p. 368)

Matching

1. b (p. 360)
2. d (p. 365)
3. a (p. 362)
4. e (p. 364)
5. g (p. 366)
6. c (p. 360)
7. f (p. 366)

CHAPTER QUESTIONS (p. 382)**Multiple Choice**

1. d (p. 363)
2. c (p. 365)
3. d (p. 373)
4. f (p. 378)
5. c (p. 380)
6. b (p. 379)

Fill in the Blank

1. a. pre-ictal (p. 364)
b. post-ictal (p. 365)
c. ictal (p. 364)
2. hypoxia, hypoglycemia (p. 377)
3. level of consciousness assessment using the Glasgow Coma Scale, pupillary exam, motor-sensory exam, higher cortical function exam, vocal/speech exam (p. 374)
4. assessing the equality of limbs (ability to move in unison and in a directed fashion), assessing the patient's ability to sense and differentiate touch (p. 374)
5. answers will vary. Possible answer includes having the patient perform a task consisting of multiple steps (p. 375)
6. a. X (p. 375)
b. X (p. 375)
c. X (p. 375)

- d. X (p. 375)
- e. X (p. 375)
- f. X (p. 375)
- g. X (p. 375)
- h.
- i.
- j. X (p. 375)
- k. X (p. 375)
- l. X (p. 375)
- m. X (p. 375)
- n.

7. a. X (p. 376)
b.
c. X (p. 376)
8. airway (p. 377)
9. Ensure that the patient can follow simple commands; ask the patient to hold a cup of water; determine if the patient's gag reflex is intact; ask the patient to drink a sip of water; have the patient swallow 15–20 grams of glucose. (p. 378)

Matching

1. 1. c, e, f (p. 371)
2. a, b, h, i (p. 371)
3. d, g, j, k (p. 371)
2. a. P and G (pp. 363–364)
b. P (p. 363)
c. P (p. 363)
d. G (p. 364)
e. P (p. 363)
f. P (p. 363)
g. G (p. 364)
h. P (p. 363)
i. G (p. 364)
j. G (p. 364)
k. G (p. 364)
l. P (p. 363)
m. P (p. 363)

Scenario

1. c (p. 363)
2. b (p. 373)
3. a (p. 376)

Chapter 12**STOP, THINK, UNDERSTAND** (p. 390)**Multiple Choice**

1. d (p. 387)
2. b (p. 389)
3. a (p. 388)
4. b (p. 388)
5. d (p. 387)

STOP, THINK, UNDERSTAND (p. 395)**Multiple Choice**

1. a (p. 394)
2. d (p. 392)
3. d (p. 390)

Matching

1. r (p. 394)
2. p (p. 394)
3. j (p. 391)
4. k (p. 394)
5. f (p. 393)
6. s (p. 392)
7. e (p. 391)
8. o (p. 394)
9. d (p. 391)
10. t (p. 392)
11. v (p. 394)
12. c (p. 391)
13. l (p. 391)
14. g (p. 394)
15. x (p. 392)
16. q (p. 394)

STOP, THINK, UNDERSTAND (p. 401)**Multiple Choice**

1. c (p. 400)
2. b (p. 400)
3. d (p. 393)
4. c (p. 398)
5. a (p. 398)

CHAPTER QUESTIONS (p. 403)**Multiple Choice**

1. c (p. 398)
2. c (p. 393)
3. b (p. 389)
4. b (p. 397)
5. a (p. 401)

Short Answer

1. Ensure scene safety and Standard Precautions; determine that a poisoning event or a substance abuse event has occurred; search the scene for evidence of a substance or poison (e.g., pill bottles, spray cans); examine the patient, looking for evidence of toxic exposure, and then manage and transport the patient (p. 396)
2. Activated charcoal absorbs and binds toxins. (p. 399)
3. 1-800-222-1222 (p. 401)
4. ingestion, inhalation, transdermal absorption, injection (p. 387)
5. manage ABCDs, apply high-flow oxygen, reduce exposure, reduce absorption, provide rapid transport to definitive care (p. 398)

Matching

1. d (p. 397)
2. j (p. 397)
3. b (p. 397)
4. i (p. 397)
5. g (p. 397)
6. a (p. 397)
7. e (p. 397)
8. c (p. 397)
9. f (p. 397)
10. h (p. 397)

Scenario

1. c (p. 397)
2. b (p. 391)
3. a (p. 389)

Chapter 13**STOP, THINK, UNDERSTAND** (p. 409)**Multiple Choice**

1. a. X (p. 414)
b. X (p. 413)
c. X (p. 415)
d. X (p. 415)
e. (p. 414)
f. X (p. 416)
2. c (p. 407)
3. c (p. 407)
4. d (p. 407)

STOP, THINK, UNDERSTAND (p. 413)**Multiple Choice**

1. b (p. 408)
2. c (p. 408)
3. b (p. 408)
4. d (p. 410)
5. a (p. 410)
6. a (p. 412)
7. a (p. 412)
8. b (p. 412)
9. a (p. 411)

Fill in the Blank

1. Alveoli (p. 411)
2. diaphragm (p. 411)

1204 ANSWER KEY**STOP, THINK, UNDERSTAND** (p. 417)**Multiple Choice**

d (p. 413)

Fill in the Blank

epiglottis (p. 413)

Matching

- | | |
|---------------|---------------|
| 1. b (p. 414) | 2. b (p. 414) |
| 2. c (p. 413) | 2. d (p. 415) |
| 3. a (p. 413) | 3. e (p. 414) |
| 4. f (p. 414) | 4. c (p. 417) |
| 5. d (p. 415) | 5. a (p. 414) |
| 6. e (p. 416) | |

STOP, THINK, UNDERSTAND (p. 423)**Multiple Choice**

- | | |
|---------------|---------------|
| 1. b (p. 418) | 3. c (p. 421) |
| 2. b (p. 418) | 4. b (p. 422) |

Matching

- a, j, o (p. 418)
- d, f, k, n (p. 418)
- b, l, m (p. 418)
- g, i, q (p. 418)
- a, e, h, m, p, q (p. 424)

Labeling

- | | |
|---------------|---------------|
| a. M (p. 412) | f. S (p. 418) |
| b. S (p. 418) | g. S (p. 418) |
| c. S (p. 418) | h. M (p. 418) |
| d. M (p. 412) | i. S (p. 418) |
| e. S (p. 418) | j. M (p. 418) |

CHAPTER QUESTIONS (p. 430)**Multiple Choice**

- | | |
|---------------|---------------|
| 1. a (p. 418) | 6. c (p. 421) |
| 2. c (p. 424) | 7. c (p. 421) |
| 3. a (p. 424) | 8. d (p. 422) |
| 4. a (p. 421) | 9. a (p. 424) |
| 5. b (p. 424) | |

True or False

- | | |
|---------------|---------------|
| a. F (p. 424) | e. F (p. 424) |
| b. T (p. 424) | f. T (p. 424) |
| c. T (p. 424) | g. F (p. 424) |
| d. T (p. 424) | |

Scenario

- | | |
|---------------|---------------|
| 1. a (p. 425) | 5. c (p. 424) |
| 2. d (p. 418) | 6. a (p. 422) |
| 3. c (p. 425) | 7. b (p. 424) |
| 4. b (p. 412) | |

Chapter 14**STOP, THINK, UNDERSTAND** (p. 438)**Multiple Choice**

- | | |
|---------------|---------------|
| 1. b (p. 436) | 4. d (p. 437) |
| 2. c (p. 436) | 5. b (p. 437) |
| 3. a (p. 436) | 6. d (p. 437) |

Fill in the Blank

- | | |
|---------------|---------------|
| a. X (p. 435) | d. X (p. 436) |
| b. X (p. 436) | e. X (p. 436) |
| c. X (p. 436) | |

STOP, THINK, UNDERSTAND (p. 445)**Multiple Choice**

- | | |
|---------------|---------------|
| 1. a (p. 439) | 5. c (p. 441) |
| 2. d (p. 439) | 6. b (p. 443) |
| 3. b (p. 445) | 7. a (p. 444) |
| 4. d (p. 445) | |

Fill in the Blank

- less than 90 mmHg (p. 445)
- greater than 20 rpm (p. 445)
- greater than 110 bpm (p. 445)
- anxious or decreased GCS less than 14 (p. 445)
- 90% (p. 445)

Matching

- a, b (p. 444)
- e, j (p. 444)
- c, d, f, g, h, i (p. 444)

STOP, THINK, UNDERSTAND (p. 449)**Multiple Choice**

- | | |
|---------------|---------------|
| 1. a (p. 446) | 4. a (p. 447) |
| 2. b (p. 447) | 5. a (p. 447) |
| 3. c (p. 446) | |

CHAPTER QUESTIONS (p. 454)**Multiple Choice**

- | | |
|---------------|---------------|
| 1. c (p. 447) | 3. d (p. 446) |
| 2. a (p. 437) | |

Short Answer

Answers may vary and may include assess and correct ABCDs, open the patient's airway, apply O₂ with a nonrebreather mask at 15 LPM, place the patient in the shock position, remove the stinger, activate EMS, ask the patient about an EpiPen, and assist the patient as needed. (p. 447)

Matching

- | | |
|---------------|----------------|
| 1. h (p. 437) | 6. e (p. 436) |
| 2. b (p. 439) | 7. g (p. 436) |
| 3. i (p. 438) | 8. a (p. 437) |
| 4. j (p. 437) | 9. d (p. 439) |
| 5. c (p. 440) | 10. f (p. 439) |

Scenario

- | | |
|---------------|---------------|
| 1. b (p. 440) | 3. b (p. 443) |
| 2. d (p. 443) | |

Chapter 15**STOP, THINK, UNDERSTAND** (p. 471)**Multiple Choice**

- | | |
|------------------|---------------|
| 1. b (p. 464) | f. X (p. 465) |
| 2. d (p. 465) | g. X (p. 465) |
| 3. a. X (p. 465) | h. X (p. 465) |
| b. X (p. 465) | 4. b (p. 465) |
| c. X (p. 465) | 5. a (p. 466) |
| d. X (p. 465) | 6. d (p. 466) |
| e. X (p. 465) | |

Fill in the Blank

- aneurysm (p. 469)
- angina pectoris (p. 466)

Matching

- | | |
|---------------|----------------|
| 1. d (p. 466) | 7. j (p. 469) |
| 2. e (p. 467) | 8. g (p. 469) |
| 3. f (p. 468) | 9. i (p. 469) |
| 4. b (p. 468) | 10. k (p. 468) |
| 5. a (p. 468) | 11. c (p. 468) |
| 6. h (p. 469) | |

True or False

- | | |
|---------------|---------------|
| a. F (p. 470) | c. T (p. 470) |
| b. F (p. 470) | d. F (p. 470) |

STOP, THINK, UNDERSTAND (p. 488)**Multiple Choice**

- | | |
|---------------|---------------|
| 1. c (p. 466) | 4. c (p. 472) |
| 2. d (p. 486) | 5. a (p. 472) |
| 3. a (p. 486) | 6. c (p. 475) |

Short Answer

- early access (p. 476), early CPR (p. 476), early defibrillation (p. 476), early advanced care (p. 476), integrated post-cardiac arrest care (p. 476)
- Give chest compressions at a rate of 100 times per minute and a depth of 1.5–2 inches, allowing for complete recoil. (p. 477)
- Apply a nasal cannula at 4–6 LPM (p. 485)
- Answers will vary, but should include heart attack; OPQRST, SAMPLE, assisting with any medications, administering O₂ with a nonrebreather mask at 15 LPM, monitoring vital signs, calling ahead to have medical attention waiting at the gate, placing the patient in position of comfort (p. 487)

Matching

- | | |
|---------------------|----------------|
| 1. l (p. 472) | 7. h (p. 475) |
| 2. a, b, f (p. 474) | 8. i (p. 475) |
| 3. e (p. 474) | 9. k (p. 476) |
| 4. m (p. 476) | 10. j (p. 475) |
| 5. c (p. 475) | 11. g (p. 474) |
| 6. d (p. 475) | |

CHAPTER QUESTIONS (p. 491)**Multiple Choice**

- | | |
|---------------|----------------|
| 1. c (p. 458) | 7. a (p. 486) |
| 2. d (p. 459) | 8. c (p. 486) |
| 3. a (p. 474) | 9. b (p. 487) |
| 4. d (p. 480) | 10. c (p. 486) |
| 5. b (p. 475) | 11. c (p. 466) |
| 6. c (p. 481) | 12. c (p. 476) |

True or False

- | | |
|---------------|---------------|
| a. F (p. 470) | c. T (p. 470) |
| b. T (p. 465) | d. F (p. 476) |

Scenario

- | | |
|---------------|---------------|
| 1. d (p. 474) | 3. c (p. 475) |
| 2. a (p. 486) | 4. b (p. 487) |

Chapter 16**STOP, THINK, UNDERSTAND** (p. 499)**Multiple Choice**

1. c (p. 494)
2. b (p. 496)
3. a (p. 495)
4. c (p. 496)

Short Answer

1. a. RUQ: liver, gallbladder, portion of the colon (p. 496)
- b. LUQ: stomach, spleen, portion of the colon (p. 496)
- c. RLQ: appendix, portion of the large intestine, portion of the small intestine (p. 496)
- d. LLQ: portion of the large intestine, portion of the small intestine (p. 496)
2. venae cavae, aorta (p. 496)

Matching

1. c (p. 496)
2. d (p. 496)
3. e (p. 496)
4. f (p. 496)
5. b (p. 496)
6. g (p. 496)
7. a (p. 496)

STOP, THINK, UNDERSTAND (p. 507)**Multiple Choice**

1. a (p. 500)
2. b (p. 505)
3. b (p. 506)
4. d (p. 505)

Matching

1. c (p. 500)
2. e (p. 500)
3. d (p. 500)
4. a (p. 500)
5. b (p. 500)

STOP, THINK, UNDERSTAND (p. 511)**Multiple Choice**

1. b (p. 496)
2. d (p. 508)
3. c (p. 509)
4. b (p. 509)
5. a (p. 509)
6. d (p. 510)

Short Answer

- a. X (p. 508)
- b. X (p. 510)
- c. X (p. 510)
- d. X (p. 504)
- e.
- f. X (p. 510)
- g.
- h. X (p. 510)
- i. X (p. 510)

CHAPTER QUESTIONS (p. 512)**Multiple Choice**

1. c (p. 508)
2. d (p. 502)
3. a (p. 506)
4. b (pp. 474, 500)
5. a (p. 512)
6. c (p. 495)
7. b (p. 496)

Matching

1. 1. e (p. 500)
2. h (p. 504)
3. c (p. 503)
4. f (p. 502)
5. a (p. 500)
6. d (p. 504)
7. l (p. 508)
8. n (p. 501)
9. m (p. 504)
10. b (p. 502)
11. g (p. 500)
12. k (p. 503)
13. j (p. 502)
14. i (p. 500)
2. 1. c (p. 506)
2. d (p. 506)
3. a (p. 506)
4. b (p. 506)

Short Answer

Hollow organs move material, whereas solid organs are highly vascular. Thus, when material leaks out of a hollow organ, peritonitis occurs, whereas damage to solid organs can cause internal bleeding and lead to hemorrhagic shock. (p. 495)

Scenario

1. d (p. 504)
2. d (p. 499)
3. d (p. 500)
4. b (p. 502)
5. a (p. 510)

Chapter 17**STOP, THINK, UNDERSTAND** (p. 529)**Multiple Choice**

1. b (p. 519)
2. a (p. 519)
3. d (p. 526)

List

speed, stopping distance (p. 519)

Matching

1. 1. h (p. 523)
2. c, d, f (p. 522)
3. b, f, (p. 523)
4. a, i (p. 522)
5. e, g, j (p. 522)
2. 1. b, e (p. 527)
2. b, d, e (p. 527)
3. c (p. 527)
4. a (p. 528)
5. a (p. 528)

CHAPTER QUESTIONS (p. 534)**Multiple Choice**

1. a (p. 530)
2. a (p. 525)
3. d (p. 532)
4. c (p. 532)
5. c (p. 532)

List

1. assess the mechanism of injury (MOI); determine how many patients there are; assess the need for additional resources (p. 530)
2. mechanism of injury (p. 521)
3. the forces involved; treatment rendered before your arrival (p. 531)
4. Onset; Provocation; Quality; Radiation/Region; Severity; Time (See Chapter 7)

Short Answer

1. Answer depends on your individual patrol protocol.
2. Answer depends on your individual patrol protocol.

Scenario

1. d (p. 525)
2. b (p. 522)
3. d (p. 531)
4. c (p. 520)

Chapter 18**STOP, THINK, UNDERSTAND** (p. 541)**Multiple Choice**

1. c (p. 540)
2. d (p. 540)

True or False

- a. F (p. 540)
- b. T (p. 540)
- c. T (p. 540)
- d. T (p. 540)
- e. T (p. 540)

Matching

1. d (p. 540)
2. b (p. 540)
3. c (p. 540)
4. e (p. 540)
5. a (p. 540)

Short Answer

1. epidermis, dermis (p. 539)
2. Hairs become erect to trap warm air near the skin's surface; blood vessels constrict to shunt blood away from the skin. (p. 540)
3. Blood vessels dilate, allowing heat to radiate away from the body; sweat glands secrete sweat that evaporates, cooling the skin. (p. 540)

STOP, THINK, UNDERSTAND (p. 544)**Multiple Choice**

1. c (p. 540)
2. d (p. 542)

Matching

1. 1. V (p. 542)
2. A (p. 542)
3. A (p. 542)
4. V (p. 542)
5. V (p. 542)
6. A (p. 542)
7. C (p. 542)
2. 1. b (p. 543)
2. a (p. 543)
3. d (p. 545)
4. c (p. 543)
5. e (p. 543)

Sequence

- a. 3 (p. 542)
- b. 4 (p. 542)
- c. 6 (p. 542)
- d. 1 (p. 542)
- e. 5 (p. 542)
- f. 2 (p. 542)

List

closed injuries, open injuries, burns (p. 542)

STOP, THINK, UNDERSTAND (p. 549)**Multiple Choice**

1. b (p. 545)
2. c (p. 547)
3. a (p. 548)
4. c (p. 549)

Matching

1. e (p. 546)
2. a (p. 546)
3. g (p. 547)
4. b (p. 546)
5. f (p. 546)
6. c (p. 547)
7. h (p. 548)
8. d (p. 549)

Short Answer

Both terms refer to the appearance of a wound: linear wounds are regular like incisions, whereas stellate wounds are irregular in appearance. (p. 546)

STOP, THINK, UNDERSTAND (p. 552)**Multiple Choice**

1. d (p. 551)
2. b (p. 547)
3. c (p. 552)
4. d (p. 551)

Matching

1. a (p. 799)
2. c (p. 798)
3. b (p. 799)
4. d (p. 799)
5. i (p. 800)
6. j (p. 800)
7. g (p. 799)
8. h (p. 799)
9. e (p. 798)
10. f (p. 798)
11. l (p. 801)
12. k (p. 801)

STOP, THINK, UNDERSTAND (p. 807)**Multiple Choice**

1. d (p. 805)
2. d (p. 805)
3. c (p. 805)
4. a (p. 806)

CHAPTER QUESTIONS (p. 810)**Multiple Choice**

1. c (p. 802)
2. a (p. 805)
3. a. X (p. 801)
- b. X (p. 802)
- c. X (p. 803)
- d.
- e.
- f. X (p. 803)
- g. X (p. 803)
- h. b (p. 803)
- i. c (p. 799)
- j. c (p. 805)

List

sheet, cravats, spine board, cervical collar, nylon cable ties, radio or cell phone (p. 806)

Scenario

1. d (p. 800)
2. a (p. 806)
3. b (p. 806)
4. d (p. 806)

Chapter 25**STOP, THINK, UNDERSTAND** (p. 823)**Multiple Choice**

1. a (p. 815)
2. c (p. 815)
3. b (p. 818)
4. a (p. 819)

List

1. (any ten of the following) alcohol; age; freezing temperatures; high winds; high altitude; use of drugs; previous frostbite injury; overexertion; poor fitting,

inadequate, or wet clothing; dehydration; impaired circulation; poor nutrition (pp. 817–818)

2. (any seven of the following) know your environment; wear adequate clothing—use layering strategy; be attentive to yourself and your companions; ensure adequate nutrition and hydration; stay dry; avoid restrictive clothing and boots; change your socks; avoid alcohol, caffeine, and drugs; do not tolerate numbness in your hands or feet (pp. 821–822)

STOP, THINK, UNDERSTAND (p. 833)**Multiple Choice**

1. a (pp. 824–825)
2. d (p. 827)
3. a (p. 831)
4. c (p. 831)

List

seek shelter (p. 828); replace wet clothing (p. 828); insulate one's body from the ground (p. 828); wear a hat (p. 828); establish a vapor barrier (p. 828)

Matching

1. 1. b, f (p. 825)
2. c, d (p. 825)
3. a, e, g (p. 826)
2. a. yes (p. 830)
- b. yes (p. 830)
- c. yes (p. 830)
- d. no (p. 830)
- e. yes (p. 830)
- f. no (p. 830)
- g. no (p. 831)
- h. yes (p. 830)
- i. no (p. 830)
- j. yes (p. 830)

CHAPTER QUESTIONS (p. 835)**Multiple Choice**

1. b (p. 815)
2. d (p. 819)
3. c (p. 828)
4. b (p. 831)
5. a (pp. 825, 835)

Matching

1. b, e (p. 816)
2. d, f (p. 817)
3. c (p. 817)
4. a (p. 817)

Short Answer

1. Passive warming relies on the retention of the patient's internal body heat; an example is shivering. Active warming involves the application of a heat source; an example is a hot water bottle. (p. 829)
2. prevention of heat loss (p. 828)
3. A hypothermic patient who is cold, rigid, and apparently lifeless may have a slow, faint heartbeat and tissue rigidity. (p. 831)

Scenario

1. a (p. 824)
2. d (pp. 825–826)
3. c (p. 825)
4. b (p. 830)

Chapter 26**STOP, THINK, UNDERSTAND** (p. 841)**Multiple Choice**

1. c (p. 839)
2. b (p. 840)
3. c (p. 841)
4. d (p. 841)
5. a.
- b. X (p. 841)
- c. X (p. 841)
- d.
- e. X (p. 841)
- f.

STOP, THINK, UNDERSTAND (p. 844)**Multiple Choice**

1. b (p. 842)
2. c (p. 843)
3. b (p. 843)

Fill in the Blank

body temperature, electrolyte balance, and body fluid balance (p. 842)

Matching

1. 1. b, d (p. 843)
2. a, e (p. 843)
3. c, f, g (p. 843)
4. c (p. 843)
2. a. 1 (p. 843)
- b. 4 (p. 843)
- c. 5 (p. 843)
- d. 3 (p. 843)
- e. 2 (p. 843)

