

2017 Northern Mine Rescue Contest
Written Exam
(First Aid Competition)



June 5, 2017
Findley Lake, New York

Please do not write on this test. Use the answer sheet provided.

**2017 Northern Mine Rescue Contest
Written Exam – First Aid Competition**

Directions: Fill in the corresponding bubble on your Scantron sheet to indicate the letter preceding the correct answer to each of the following questions. Select only one answer per question.

1. What is one way emergency medical responders can minimize the risk of acquiring and infectious disease?
 - A. Proper health
 - B. Immunizations
 - C. Avoidance
 - D. None of the above

2. The largest organ of the body is the:
 - A. Skin
 - B. Lungs
 - C. Brain
 - D. Intestines

3. The direct ground lift should never be accomplished by two people.
 - A. True
 - B. False

4. What maneuver is recommended to clear a foreign body airway obstruction of a responsive adult patient that is obese or pregnant?
 - A. Back blow
 - B. Abdominal thrust
 - C. Chest thrust
 - D. Finger sweep

5. You are caring for a patient complaining of mild shortness of breath and have him/her on a nasal cannula at 6 liters per minute. What oxygen concentration are you delivering to the patient?
 - A. 25%
 - B. 29%
 - C. 33%
 - D. 45%

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6. The rate of chest compressions differs by 30 compressions per minute between adults and infants.
 - A. True
 - B. False

7. _____ is the process of comparing multiple sets of vitals from two different patients over time.
 - A. Base line vitals
 - B. Perfusion
 - C. Trending
 - D. None of the above

8. Patient assessment and the order in which they are performed may vary based on each patient's chief complaint.
 - A. True
 - B. False

9. Due to the short lived, 2-15 minute duration, complaints of Fred Sanford's "The Big One" he was most likely experiencing this:
 - A. Angina Pectoris
 - B. Myocardial Infarction
 - C. Aneurysm
 - D. Heart Arrhythmia

10. When the normal breathing rate for a patient becomes too slow or too shallow what is the proper method to assist the patient?
 - A. Supplemental oxygen by mask
 - B. Supplemental oxygen by cannula
 - C. Positive pressure ventilations
 - D. Meter dose inhaler

11. Injuries to which portion of the spine can cause paralysis, impair breathing and even cause death?
 - A. Sacral
 - B. Lumbar
 - C. Thoracic
 - D. Cervical

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12. The _____ is a standardized tool used to describe the level of responsiveness of a patient using specific criteria.
- A. ABC's
 - B. Triage
 - C. Nine line report
 - D. Glasgow Coma Scale
13. Specific signs and symptoms that indicate some type of emergency relating to the heart best describe:
- A. Cardiac compromise
 - B. Myocardial infarction
 - C. Angina pectoris
 - D. Heart failure
14. A patient who is experiencing an abnormally low body core temperature is said to be:
- A. Hypothermic
 - B. Hyperglycemic
 - C. Hyperthermic
 - D. Cyanotic
15. Active charcoal is only recommended for what type of poisoning?
- A. Absorbed
 - B. Ingested
 - C. Inhaled
 - D. Topical
16. There are three types of external bleeding. Which of the following is not one of the three:
- A. Arterial
 - B. Capillary
 - C. Hemorrhage
 - D. Venous
17. Which type of shock occurs when there is an inadequate amount of fluid in the body?
- A. Hypovolemic
 - B. Distributive
 - C. Cardiogenic
 - D. Obstructive

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18. A patient is found with an angulated arm and distal circulation is absent. What should you do?
- A. Splint in place as the arm is found
 - B. Move the arm to its anatomical position
 - C. Elevate the injury to promote blood flow
 - D. None of the above
19. _____ is the application of an electric shock to a patient's heart in an attempt to convert a lethal rhythm into a normal one.
- A. Cardiac Shock
 - B. Fluctuation
 - C. Defibrillation
 - D. Resuscitation
20. You encounter a patient with a suspected head and neck injury who is unresponsive and not breathing. You try to open the airway with the jaw-thrust maneuver but are unsuccessful. What should you do next?
- A. Maintain manual stabilization and await EMS
 - B. Attempt the head-tilt/chin lift maneuver
 - C. Continue to attempt ventilations
 - D. Begin chest compressions
21. If an impaled object interferes with the performance of CPR it should be removed.
- A. True
 - B. False
22. The imaginary line that bisects the body into two halves (left and right) is known as the:
- A. Proximal break
 - B. Inferior aspect
 - C. Recumbent line
 - D. Midline
23. A bag mask device delivers a higher percentage of oxygen to a patient than a pocket face mask.
- A. True
 - B. False

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24. Which term refers to a disorganized electrical activity within the heart that renders the heart incapable of pumping blood?
- A. Fibrillation
 - B. Asystole
 - C. Infarction
 - D. Tachycardia
25. The tearing loose or the tearing off of a large flap of skin describes which of the following types of wounds?
- A. Abrasion
 - B. Laceration
 - C. Amputation
 - D. Avulsion
26. When using the AVPU scale to classify a patient's mental status what does the "P" stand for?
- A. Painful
 - B. Pierogis
 - C. Perceptive
 - D. Positive
27. You find a patient that is gurgling while breathing. What immediate action should be taken?
- A. Put the patient in a supine position
 - B. Assist ventilation with a bag mask device
 - C. Use a manual airway maneuver
 - D. Roll the patient on side and/or suction
28. An individual has suffered a significant mechanism of injury to the torso in an automobile accident. As a responder you should most likely expect to encounter what type of trauma.
- A. Compound Trauma
 - B. Isolated trauma
 - C. Multisystem trauma
 - D. Absolute trauma

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29. Which one of the following is the most appropriate care for an open abdominal injury?
- A. Pack the inside of the wound with clean dressing
 - B. Pour sterile saline over the wound
 - C. Cover the wound with a dry, clean dressing
 - D. Cover the wound with moist, sterile dressing
30. Which of the below is the most commonly abused substances in the United States?
- A. Alcohol
 - B. Marijuana
 - C. Opioids
 - D. Steroids

ANSWER KEY

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<u>Question</u>	<u>Answer</u>	<u>Source (Reference Brady's 10th Edition)</u>
1.	B.	Chapter 3, pg. 35
2.	A.	Chapter 4, pg. 73
3.	B.	Chapter 6, pg. 104
4.	C.	Chapter 9, pg. 158
5.	D.	Chapter 10, pg. 180
6.	B.	Chapter 11, pg. 198
7.	D.	Chapter 12, pg. 222
8.	A.	Chapter 13, pg. 242
9.	A.	Chapter 14, pg. 279
10.	C.	Chapter 15, pg. 301
11.	D.	Chapter 21, pg. 440
12.	D.	Chapter 16, pg. 307
13.	A.	Chapter 14, pg. 277
14.	A.	Chapter 17, pg. 338
15.	B.	Chapter 16, pg. 319
16.	C.	Chapter 18, pg. 358
17.	A.	Chapter 19, pages 391-392
18.	B.	Chapter 20, pg. 414
19.	C.	Chapter 11, pg. 190
20.	B.	Chapter 21, pg. 441
21.	A.	Chapter 22, pg. 460
22.	D.	Chapter 4, pg. 56
23.	A.	Chapter 9, pg. 164
24.	A.	Chapter 11, pg. 207
25.	D.	Chapter 18, pg. 370
26.	A.	Chapter 13, pg. 253
27.	D.	Chapter 15, pg. 300
28.	C.	Chapter 18, pg. 367
29.	D.	Chapter 22, pg. 465
30.	A.	Chapter 16, pg. 322