1. Severe narrowing or blockage of the coronary arteries can result in
   a. stroke.
   b. obstructive shock.
   c. chest pain.
   d. deep vein thrombosis.

2. Which sign is most likely associated with Cushing’s reflex?
   a. Bradycardia
   b. Hypotension
   c. Tachycardia
   d. Decreased intracranial pressure

3. The dose of epinephrine delivered by the auto-injector is
   a. 0.15 mg.
   b. 0.3 mg.
   c. 1.5 mg.
   d. 3.0 mg.

4. Failure to perform a required act or duty is called
   a. nonfeasance.
   b. breach.
   c. malfeasance.
   d. contributory negligence.

5. Which structure is unlikely found in the cranium or face?
   a. Foramen magnum
   b. Meniscus
   c. Zygomatic bone
   d. Orbit

6. The genetic childhood disease that causes thick, sticky mucus in the lungs is called
   a. respiratory distress syndrome.
   b. bronchiolitis.
   c. rubella.
   d. cystic fibrosis.

7. Chemoreceptors are found in the
   a. epididymis and seminal vesicles.
   b. kidneys and pancreas.
   c. brain and vascular system.
   d. adrenal glands and lymph nodes.
8. The adrenal glands secrete a neurotransmitter called
   a. norepinephrine.
   b. acetylcholine.
   c. dopamine.
   d. prostaglandin.

9. Administration of nitroglycerin is contraindicated when
   a. the blood pressure is greater than 100 mmHg systolic.
   b. chest pain is longer than 1 hour in duration.
   c. an erectile dysfunction medication has been recently taken.
   d. the first dose fails to relieve the chest pain.

10. Superior to inferior the structures found within the brain stem are
    a. pituitary, midbrain, and pons.
    b. midbrain, pons, and medulla oblongata.
    c. pons, midbrain, and pituitary.
    d. medulla oblongata, pituitary, and pons.

11. A type 2 diabetic complication where high blood glucose leads to osmotic
diuresis and dehydration is called
    a. hypothyroidism.
    b. hyperosmolar hyperglycemic nonketotic coma.
    c. poliomyelitis.
    d. pancreatic beta cell insufficiency.

12. How can you optimize care of a stroke patient who is a candidate for thrombolytic
    therapy?
    a. Calculate the pulse pressure
    b. Document the time of onset of symptoms
    c. Administer aspirin
    d. Transport to the closest medical facility

13. During delivery you note greenish-colored amniotic fluid. This finding suggests
    a. the fetus died and began decomposing in the uterus.
    b. a serious infection in the uterus.
    c. internal hemorrhaging in the uterus.
    d. the fetus defecated in the amniotic fluid.

14. What causes miosis?
    a. Diabetes mellitus
    b. Scabies infestation of the skin
    c. Organophosphate pesticide exposure
    d. Generalized seizures
15. A 7 year old female was rescued from a house fire. She suffered burns on her entire head, anterior chest and abdomen, and back. Using the rule of nines, the calculated area of burned surface is
   a. 28%.
   b. 38%.
   c. 48%.
   d. 58%.

16. Direct current is
   a. the cause of circumferential burns less often than alternating current.
   b. less dangerous than alternating current.
   c. the cause of circumferential burns more often than alternating current.
   d. more dangerous than alternating current.

17. Pulse oximetry
   a. measures the carbon dioxide saturation in the blood.
   b. is recorded in milligrams/deciliter (mg/dL).
   c. is a diagnostic feature of the AED.
   d. measures the oxygen saturation in body tissue.

18. Hemophilia and von Willebrand’s disease are
   a. coagulopathies.
   b. caused by retroviruses.
   c. carcinomas.
   d. caused by immunologic depression.

19. Which of the following is the causative agent for ricin?
   a. T2 myotoxins
   b. Rickettsia bacteria
   c. Contaminated minerals
   d. Caster bean plant

20. A 20 year old male is complaining of pain in the right arm. He fell off a skateboard 2 days ago and a cast was applied to the right arm. He tells you that the cast feels very tight and his right hand is numb. You note a weak radial pulse and swelling of the right hand. You should suspect
   a. pyelonephritis.
   b. comminuted fracture.
   c. compartment syndrome.
   d. deep vein thrombosis.
21. A 45 year old female is complaining of severe pain in the right mid-thigh and pain in the right knee. She was struck by a truck in a pedestrian crosswalk. You note deformity and swelling of the left upper leg, and deformity of the left patella. BP130/80, P100, R18. In the sequence of immobilization, you placed a folded blanket between the legs. You should then
   a. apply a traction splint.
   b. tie the thighs, calves, and ankles together.
   c. apply the PASG.
   d. elevate the lower extremities approximately 12”.

22. A 55 year old male is complaining of difficulty in breathing and chest pain that worsens on inhalation. Greenish-colored mucus is produced when he coughs. Crackles are present in the lower lobe of the right lung. BP130/80, P110, R24/labored, skin → warm/moist/pale, oral temperature → 102° F. You should suspect
   a. chronic obstructive pulmonary disease.
   b. pneumonia.
   c. pulmonary embolism.
   d. acute coronary syndrome.

23. The process by which toxins and excess fluid are removed from the blood is called
   a. extravasation.
   b. urolithiasis.
   c. hemodialysis.
   d. lavage.

24. When an abdominal aortic aneurysm expands, the inner layer of the aorta is damaged causing blood to leak from the inner portions of the vessel to the outer layers. The patient often describes this condition as
   a. a hot sensation in the abdomen.
   b. tearing pain in the back.
   c. unilateral flank pain that radiates to the groin.
   d. paresthesia in the lower extremities.

25. A 15 year old female was bitten on the lower leg by a rattlesnake. The most effective way to slow the spread of venom is to
   a. apply a pressure immobilization bandage to the bitten extremity.
   b. place an ice pack on the area of the bite.
   c. cut into the bite site and then suction or squeeze.
   d. place a tourniquet distal to the site of the bite.
EMT Self-Assessment for the CBT, July 2016

KEY

1. C
2. A
3. B
4. A
5. B
6. D
7. C
8. A
9. C
10. B
11. B
12. B
13. D
14. C
15. C
16. B
17. D
18. A
19. D
20. C
21. B
22. B
23. C
24. B
25. A