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Practice Questions

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1. How much blood loss is considered normal between birth and the delivery of the afterbirth?

- A. 750 cc.
- B. 100 cc.
- C. 1000 cc.
- D. 500 cc.

2. Which of the following represents the partial pressure of CO₂ in the arterial blood?

- A. capnogram
- B. capnography
- C. PaCO₂
- D. end-tidal CO₂

3. What percentage of intracellular fluid makes up the body's total water content?

- A. 60%
- B. 80%
- C. 75%
- D. 83%

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4. Jugular venous distention is one sign of which of the following?

- A. angina pectoris
- B. myocardial infarction
- C. right-sided heart failure
- D. left-sided heart failure



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5. What muscle type lines the inside of hollow organs?

- A. Connective muscle
- B. Epithelial muscle
- C. Smooth muscle
- D. Cardiac muscle

6. The middle meatus is a

- A. Divider.
- B. Downward direction of airflow.
- C. Type of sinus.
- D. Drainage pathway.

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7. A condition that occurs when blood is allowed to flow between the layers of an artery is known as which of the following?

- A. Aortic aneurysm.
- B. Separating aneurysm.
- C. Dissecting aneurysm.
- D. Dissecting embolism.

8. The bulging of the fetal head past the opening of the vagina during a contraction is called what?

- A. Breech Birth
- B. Preeclampsia
- C. Crowning
- D. Effacement

9. At what age may a child view medical treatments as hostile?

- A. 1-3
- B. All ages
- C. 5-7
- D. 3-5

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10. Stretch-sensitive receptors that detect changes in blood pressure are known as which of the following?

- A. chemoreceptors
- B. alpha cells
- C. beta cells
- D. baroreceptors

11. You should not attempt to reach a patient inside a vehicle before the fire department stabilizes it if it is in which position?

- A. Upside down.
- B. On flat tires.
- C. Upright.
- D. On side.

12. Which of the following would be considered a medium-velocity weapon?

- A. a handgun
- B. a stick
- C. a hunting rifle
- D. a knife

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13. There are four items that demonstrate negligence; which of the below items is not one of them?

- A. Damages
- B. Each is one of the four items
- C. Breach of duty
- D. Duty to perform

**14. Chemical agents are considered weapons of mass destruction.

Which of the following agents is known as a “blood agent?”**

- A. Tabun
- B. Soman
- C. cyanide
- D. Sarin



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**15. When transferring a patient, you are given orders that the patient is to NPO.

You understand that this means what?**

- A. That they are not to have anything by mouth
- B. That they are not to be sedated
- C. That they are to be restrained
- D. That they are not to receive oxygen

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16. What does Boyle's law refer to?

- A. Running
- B. None of the above
- C. Diving
- D. Jumping

**17. Brandy, an 8-year-old girl, has unfortunately been involved in a car accident and is currently unconscious. Surprisingly, there is no adult accompanying her at the scene.

How would you proceed in this situation?**

- A. Provide emergency care.
- B. Wait for an adult who knows the girl.
- C. Find the parents of the girl.
- D. Call the medical direction physician.

18. This valve is located between the left ventricle and left atrium:

- A. Pulmonary Valve
- B. Smooth Valve
- C. Mitral Valve
- D. Cardiac Valve

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19. Which of the following has the smoothest surface?

- A. Endocardium
- B. Myocardium
- C. Great vessels of the heart
- D. Pericardium



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20. How many minutes does it take for normal clotting to take place?

- A. 11 to 14 minutes
- B. 0 to 2 minutes
- C. 3 to 6 minutes
- D. 7 to 10 minutes

21. During systole, the heart's chambers are

- A. Contracting.
- B. Relaxing.
- C. Drowning in blood.
- D. In panic mood.

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22. Which circulatory loop carries oxygenated blood from the left side of the heart to the body's tissues?

- A. Cardiac circulation loop.
- B. Pulmonary circulation loop.
- C. Blood circulation loop.
- D. Systemic circulation loop.

23. Which of the following would NOT be considered a soft tissue injury?

- A. laceration
- B. crush injury
- C. flail segment
- D. contusion

24. Arterial bleeding is best defined as

- A. dark red blood that slowly oozes from a wound and seldom requires treatment
- B. blood, dark red in color because it is depleted of oxygen, which flows steadily from injured vessels
- C. bright or dark red blood that flows steadily from injured vessels
- D. bright red spurting blood that corresponds to the patient's pulse

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25. What does PMS stand for during your assessment of a patient's lower extremity?

- A. Pulse, Motor, Severity
- B. Pain, Motion, Severity
- C. Pain, Motion, Sensation
- D. Pulse, Motor, Sensation

26. Both oral and nasal airways should be:

- A. Cleaned well for reuse after the run
- B. Used to prevent the need for suctioning
- C. Inserted in all critically injured patients
- D. Used to keep the tongue from blocking the airway

27. What does the term “dyspnea” mean?

- A. Difficulty yawning
- B. Difficulty in clotting
- C. Shortness of limb
- D. Shortness of breath

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28. In what system does a pulmonary embolism travel?

- A. Circulatory System
- B. Nervous System
- C. Central Nervous System
- D. Endocrine System

29. What is determined by how easily the lungs stretch?

- A. Flexibility
- B. Extension
- C. Compliance
- D. Accommodation

30. The COBRA Airway device can be used

- A. 15 times.
- B. Once.
- C. Twice.
- D. Can be reused ongoing.



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Answer Key & Explanations

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1. D — 500 cc.

In a normal delivery, the mother loses about 500 cc of blood between birth and delivery of the afterbirth. Bleeding in excess of this may indicate a complication.

2. C — PaCO₂

PaCO₂ is the measure of partial pressure of CO₂ in the arterial blood. It is usually expressed in millimeters of mercury (mm Hg).

3. C — 75%

The intracellular fluid make up in the body as total water content is 75%. Intravascular fluid makes up 7.5%. Interstitial fluid makes up 17.5%. Thus interstitial and intravascular fluid makes up a total of 25%.

4. C — right-sided heart failure

Backward failure of the right ventricle results in excess fluid that accumulates in the body, often in dependent extremities. This may cause jugular venous distention, enlargement of the liver, and possible abdominal distention in severe cases.

5. C — Smooth muscle

Smooth muscle lines the inside of hollow organs. For example, smooth muscle lines the intestines, airways, and blood vessels. It is generally under the control of the involuntary or autonomic component of the central nervous system.

6. D — Drainage pathway.

There are several different sinuses. Many of them drain out into the nose. This drainage channel is known as the middle meatus.

7. C — Dissecting aneurysm.

Dissecting aneurysm occurs when blood is allowed to flow between the layers of an artery. This occurs when layers of the vessel separate.

8. C — Crowning

Crowning is the bulging of the fetal head past the opening of the vagina during a contraction. It is an indication of an impending delivery.

9. D — 3-5

Children between the ages of 3-5 may view medical treatments as hostile. This age group has vivid imaginations and may see monsters as part of their world. During this stage of development, children have a fear of mutilation and may view treatment procedures as hostile.

10. D — baroreceptors

Baroreceptors, located in the aortic arch and carotid sinuses, are stretch-sensitive receptors that detect changes in blood pressure. As the pressure inside the vessels changes, it decreases or increases the stretch



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of the fibers of the baroreceptors.

11. D — On side.

Vehicles on their sides are more unstable than upright or upside down. The fire department will have the tools to stabilize the vehicle. Only reach a patient if there is immediate danger by crawling through the back to prevent moving the vehicle.

12. A — a handgun

A **handgun** and some smaller caliber rifles are considered medium-velocity weapons because they produce enough energy to cause injury beyond the immediate pathway of the projectile. High-velocity injuries are caused by high-velocity rifles, such as hunting and assault rifles, which often use large caliber ammunition.

13. B — Each is one of the four items

Each item is one of that demonstrates negligence. The “duty to perform” is the legal obligation to provide care for the patient and is referred to as a duty to act. The “breach of duty” is the inappropriate standard of care. “Damages” refers to the patient being injured by the “breach of duty.” Finally, “proximate cause” refers to a direct relationship between the damages sustained and the “breach of duty.”

14. C — cyanide

Cyanide interferes with the body’s ability to deliver oxygen to the cells, leading to severe hypoxia and death. Cyanide is also known as a “blood agent.” The other three choices are nerve agents.

15. A — That they are not to have anything by mouth

NPO means that a patient is not to have anything by mouth. This could be for a number of reasons; they might have to have surgery or tests that require the patient not to have anything in their stomach.

16. C — Diving

Boyle’s law refers to diving. This law states that the amount of gas dissolved in a given volume of fluid is proportional to the pressure of the gas with which it is in equilibrium. In other words, for every 33 feet below the surface you dive, the pressure of gas in your lungs doubles, while the volume decreases by one-half.

17. A — Provide emergency care.

All unconscious patients, regardless of age, are assumed to wish to be treated under the doctrine of implied consent. The EMT-Intermediate is responsible for treating the patient when there is a threat to life. Furthermore, the patient’s inability to sign a refusal of care implies a wish to be treated. Contacting the parents of underage patients should be coordinated by law enforcement at the scene or by the emergency department staff.

18. C — Mitral Valve

The mitral valve is located between the left ventricle and left atrium. The mitral valve is also known as the bicuspid valve. It is under the greatest amount of strain caused by pressures generated during left-ventricular contraction. In some patients, this valve progressively fails, allowing regurgitation of blood into the left atrium, increasing hydrostatic pressure in the pulmonary veins, and eventually leading to pulmonary edema.

19. A — Endocardium

The Endocardium has the smoothest surface. The Endocardium is the innermost layer that lines the



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chambers of the heart.

20. D — 7 to 10 minutes

Clotting generally takes 7 to 10 minutes. The exact time that blood clots depends on the size of the wound and how well the body's systems respond.

21. A — Contracting.

During systole the heart's chambers are contracting. During systole the ventricles are pumping blood outside of the heart.

22. D — Systemic circulation loop.

The systemic circulation loop is used to carry oxygenated blood to the body's tissues. The blood is moved to the tissues from the left side of the heart.

23. C — flail segment

A flail segment occurs in a chest injury when there are adjacent ribs that are fractured in numerous places. It is not a soft tissue injury.

24. D — bright red spurting blood that corresponds to the patient's pulse

Under pressure by the contractions of the heart, arterial bleeding is recognized by **spurting** blood that corresponds to the patient's pulse. It is also bright red

25. D — Pulse, Motor, Sensation

PMS stands for Pulse, Motor, Sensation. It is important to assess PMS before and after splinting an extremity.

26. D — Used to keep the tongue from blocking the airway

In cases where a patient is unconscious, the tongue can fall back in the mouth and obstruct the airway. To prevent this, an oral or nasal airway is employed. However, oral or nasal airways are not inserted in all critical patients. They are not used if the patient is breathing, has a gag reflex, or has extensive facial trauma that would make their use inadvisable.

27. D — Shortness of breath

The term "dyspnea" means shortness of breath. This is the patient's subjective sensation description for not being able to breathe.

28. A — Circulatory System

Pulmonary embolisms travel the circulatory system. Pulmonary embolism is a blood clot or some other particle that lodges in a pulmonary artery. The problem occurs when a blood clot travels up the venous circulatory system and lodges in a pulmonary artery.

29. C — Compliance

How easily the lungs stretch is determined by compliance. Increased compliance indicates the chest or lungs are very easy to inflate and may indicate a loss of some elastic recoil. Decreased compliance indicates the chest or lungs are stiff and difficult to inflate. Decreased compliance is often seen in emphysema, circumferential chest wall burns, or tension pneumothorax.

30. B — Once.

The COBRA Airway device can only be used once. It is a single use device that has a large inner diameter that increases air flow.



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