

# A&P 26 Fluid, Electrolyte, Acid-Base Balance MCQ

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## 4. Chapter: A&P 26 Fluid, Electrolyte, Acid-Base Balance MCQ

### 1. A&P 26 Fluid, Electrolyte, Acid-Base Balance MCQ Questions

#### 4.1.1. Solute contributes to the movement of water between cells and the s...

Author: OpenStax College

Solute contributes to the movement of water between cells and the surrounding medium by \_\_\_\_\_.

Please choose only one answer:

- osmotic pressure
- hydrostatic pressure
- Brownian movement
- random motion

Check the answer of this question online at QuizOver.com:

Question: [Solute contributes to the movement of OpenStax College Anatomy Quest](#)

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4.1.2. A cation has a(n) \_\_\_\_\_ charge.

Author: OpenStax College

A cation has a(n) \_\_\_\_\_ charge.

Please choose only one answer:

- neutral
- positive
- alternating
- negative

Check the answer of this question online at QuizOver.com:

Question: [A cation has a n charge. OpenStax College Anatomy Physiology 26:](#)

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### 4.1.3. Interstitial fluid (IF) is \_\_\_\_\_.

Author: OpenStax College

Interstitial fluid (IF) is \_\_\_\_\_.

Please choose only one answer:

- the fluid in the cytosol of the cells
- the fluid component of blood
- the fluid that bathes all of the body's cells except for blood cells
- the intracellular fluids found between membranes

Check the answer of this question online at QuizOver.com:

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4.1.4. The largest amount of water comes into the body via \_\_\_\_\_.

Author: OpenStax College

The largest amount of water comes into the body via \_\_\_\_\_.

Please choose only one answer:

- metabolism
- foods
- liquids
- humidified air

Check the answer of this question online at QuizOver.com:

Question: [The largest amount of water comes into OpenStax College Anatomy Quest](#)

Flashcards:

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4.1.5. The largest amount of water leaves the body via \_\_\_\_\_.

Author: OpenStax College

The largest amount of water leaves the body via \_\_\_\_\_.

Please choose only one answer:

- the GI tract
- the skin as sweat
- expiration
- urine

Check the answer of this question online at QuizOver.com:

Question: [The largest amount of water leaves the OpenStax College Anatomy Quest](#)

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4.1.6. Insensible water loss is water lost via \_\_\_\_\_.

Author: OpenStax College

Insensible water loss is water lost via \_\_\_\_\_.

Please choose only one answer:

- skin evaporation and in air from the lungs
- urine
- excessive sweating
- vomiting or diarrhea

Check the answer of this question online at QuizOver.com:

Question: [Insensible water loss is water lost via OpenStax College Anatomy](#)

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#### 4.1.7. How soon after drinking a large glass of water will a person start ...

Author: OpenStax College

How soon after drinking a large glass of water will a person start increasing their urine output?

Please choose only one answer:

- 5 minutes
- 30 minutes
- 1 hour
- 3 hours

Check the answer of this question online at QuizOver.com:

Question: [How soon after drinking a large glass of OpenStax College Anatomy](#)

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#### 4.1.8. Bone serves as a mineral reserve for which two ions?

Author: OpenStax College

Bone serves as a mineral reserve for which two ions?

Please choose only one answer:

- sodium and potassium
- calcium and phosphate
- chloride and bicarbonate
- calcium and bicarbonate

Check the answer of this question online at QuizOver.com:

Question: [Bone serves as a mineral reserve for which OpenStax College Anatomy](#)

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4.1.9. Electrolytes are lost mostly through \_\_\_\_\_.

Author: OpenStax College

Electrolytes are lost mostly through \_\_\_\_\_.

Please choose only one answer:

- renal function
- sweating
- feces
- respiration

Check the answer of this question online at QuizOver.com:

Question: [Electrolytes are lost mostly through . OpenStax College Anatomy Quest](#)

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4.1.10. The major cation in extracellular fluid is \_\_\_\_\_.

Author: OpenStax College

The major cation in extracellular fluid is \_\_\_\_\_.

Please choose only one answer:

- sodium
- potassium
- chloride
- bicarbonate

Check the answer of this question online at QuizOver.com:

Question: [The major cation in extracellular fluid OpenStax College Anatomy](#)

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4.1.11. The major cation in intracellular fluid is \_\_\_\_\_.

Author: OpenStax College

The major cation in intracellular fluid is \_\_\_\_\_.

Please choose only one answer:

- sodium
- potassium
- chloride
- bicarbonate

Check the answer of this question online at QuizOver.com:

Question: [The major cation in intracellular fluid OpenStax College Anatomy](#)

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4.1.12. The major anion in extracellular fluid is \_\_\_\_\_.

Author: OpenStax College

The major anion in extracellular fluid is \_\_\_\_\_.

Please choose only one answer:

- sodium
- potassium
- chloride
- bicarbonate

Check the answer of this question online at QuizOver.com:

Question: [The major anion in extracellular fluid is OpenStax College Anatomy](#)

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4.1.13. Most of the body's calcium is found in \_\_\_\_\_.

Author: OpenStax College

Most of the body's calcium is found in \_\_\_\_\_.

Please choose only one answer:

- teeth
- bone
- plasma
- extracellular fluids

Check the answer of this question online at QuizOver.com:

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4.1.14. Abnormally increased blood levels of sodium are termed \_\_\_\_\_.

Author: OpenStax College

Abnormally increased blood levels of sodium are termed \_\_\_\_\_.

Please choose only one answer:

- hyperkalemia
- hyperchloremia
- hypernatremia
- hypercalcemia

Check the answer of this question online at QuizOver.com:

Question: [Abnormally increased blood levels of sodium OpenStax College Anatomy](#)

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4.1.15. The ion with the lowest blood level is \_\_\_\_\_.

Author: OpenStax College

The ion with the lowest blood level is \_\_\_\_\_.

Please choose only one answer:

- sodium
- potassium
- chloride
- bicarbonate

Check the answer of this question online at QuizOver.com:

Question: [The ion with the lowest blood level is . OpenStax College Anatomy](#)

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#### 4.1.16. Which two ions are most affected by aldosterone?

Author: OpenStax College

Which two ions are most affected by aldosterone?

Please choose only one answer:

- sodium and potassium
- chloride and bicarbonate
- calcium and phosphate
- sodium and phosphate

Check the answer of this question online at QuizOver.com:

Question: [Which two ions are most affected by OpenStax College Anatomy Quest](#)

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#### 4.1.17. Which of the following is the most important buffer inside red bloo...

Author: OpenStax College

Which of the following is the most important buffer inside red blood cells?

Please choose only one answer:

- plasma proteins
- hemoglobin
- phosphate buffers
- bicarbonate: carbonic acid buffer

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is the most important OpenStax College Anatomy](#)

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#### 4.1.18. Which explanation best describes why plasma proteins can function a...

Author: OpenStax College

Which explanation best describes why plasma proteins can function as buffers?

Please choose only one answer:

- Plasma proteins combine with bicarbonate to make a stronger buffer.
- Plasma proteins are immune to damage from acids.
- Proteins have both positive and negative charges on their surface.
- Proteins are alkaline.

Check the answer of this question online at QuizOver.com:

Question: [Which explanation best describes why plasma OpenStax College Anatomy](#)

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4.1.19. The buffer that is adjusted to control acid-base balance is \_\_\_\_\_.

Author: OpenStax College

The buffer that is adjusted to control acid-base balance is \_\_\_\_\_.

Please choose only one answer:

- plasma protein
- hemoglobin
- phosphate buffer
- bicarbonate: carbonic acid buffer

Check the answer of this question online at QuizOver.com:

Question: [The buffer that is adjusted to control OpenStax College Anatomy Quest](#)

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4.1.20. Carbonic acid levels are controlled through the \_\_\_\_\_.

Author: OpenStax College

Carbonic acid levels are controlled through the \_\_\_\_\_.

Please choose only one answer:

- respiratory system
- renal system
- digestive system
- metabolic rate of cells

Check the answer of this question online at QuizOver.com:

Question: [Carbonic acid levels are controlled through OpenStax College Anatomy](#)

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#### 4.1.21. Bicarbonate ion concentrations in the blood are controlled through ...

Author: OpenStax College

Bicarbonate ion concentrations in the blood are controlled through the \_\_\_\_\_.

Please choose only one answer:

- respiratory system
- renal system
- digestive system
- metabolic rate of cells

Check the answer of this question online at QuizOver.com:

Question: [Bicarbonate ion concentrations in the OpenStax College Anatomy Quest](#)

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#### 4.1.22. Which reaction is catalyzed by carbonic anhydrase?

Author: OpenStax College

Which reaction is catalyzed by carbonic anhydrase?

Please choose only one answer:

- $\text{HPO}_4^{2-} + \text{H}^+ \rightarrow \text{H}_2\text{PO}_4^-$
- $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{CO}_3$
- $\text{H}_2\text{PO}_4^- + \text{OH}^- \rightarrow \text{HPO}_4^{2-} + \text{H}_2\text{O}$
- $\text{H}_2\text{CO}_3 \rightarrow \text{HCO}_3^- + \text{H}^+$

Check the answer of this question online at QuizOver.com:

Question: [Which reaction is catalyzed by carbonic OpenStax College Anatomy](#)

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#### 4.1.23. Which of the following is a cause of metabolic acidosis?

Author: OpenStax College

Which of the following is a cause of metabolic acidosis?

Please choose only one answer:

- excessive HCl loss
- increased aldosterone
- diarrhea
- prolonged use of diuretics

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is a cause of OpenStax College Anatomy Quest](#)

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#### 4.1.24. Which of the following is a cause of respiratory acidosis?

Author: OpenStax College

Which of the following is a cause of respiratory acidosis?

Please choose only one answer:

- emphysema
- low blood K<sup>+</sup>
- increased aldosterone
- increased blood ketones

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is a cause of OpenStax College Anatomy Quest](#)

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4.1.25. At a pH of 7.40, the carbonic acid ratio is \_\_\_\_\_.

Author: OpenStax College

At a pH of 7.40, the carbonic acid ratio is \_\_\_\_\_.

Please choose only one answer:

- 35:1
- 4:1
- 20:1
- 3:1

Check the answer of this question online at QuizOver.com:

Question: [At a pH of 7.40 the carbonic acid ratio OpenStax College Anatomy](#)

Flashcards:

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4.1.26. Which of the following is characterized as metabolic alkalosis?

Author: OpenStax College

Which of the following is characterized as metabolic alkalosis?

Please choose only one answer:

- increased pH, decreased pCO<sub>2</sub>, decreased HCO<sub>3</sub><sup>-</sup>
- increased pH, increased pCO<sub>2</sub>, increased HCO<sub>3</sub><sup>-</sup>
- decreased pH, decreased pCO<sub>2</sub>, decreased HCO<sub>3</sub><sup>-</sup>
- decreased pH, increased pCO<sub>2</sub>, increased HCO<sub>3</sub><sup>-</sup>

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is characterized OpenStax College Anatomy](#)

Flashcards:

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