

Biology 41
Osmotic
Regulation
and Excretion
MCQ

Author: OpenStax College

Published 2015

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4. Chapter: Biology 41 Osmotic Regulation and Excretion MCQ

1. Biology 41 Osmotic Regulation and Excretion MCQ Questions

4.1.1. When a dehydrated human patient needs to be given fluids intravenou...

Author: OpenStax College

When a dehydrated human patient needs to be given fluids intravenously, he or she is given:

Please choose only one answer:

- water, which is hypotonic with respect to body fluids
- saline at a concentration that is isotonic with respect to body fluids
- glucose because it is a non-electrolyte
- blood

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

Question: [When a dehydrated human patient needs to OpenStax College Biology](#)

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4.1.2. The sodium ion is at the highest concentration in:

Author: OpenStax College

The sodium ion is at the highest concentration in:

Please choose only one answer:

- intracellular fluid
- extracellular fluid
- blood plasma
- none of the above

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

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4.1.3. Cells in a hypertonic solution tend to:

Author: OpenStax College

Cells in a hypertonic solution tend to:

Please choose only one answer:

- shrink due to water loss
- swell due to water gain
- stay the same size due to water moving into and out of the cell at the same rate
- none of the above

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

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4.1.4. The macula densa is/are:

Author: OpenStax College

The macula densa is/are:

Please choose only one answer:

- present in the renal medulla.
- dense tissue present in the outer layer of the kidney.
- cells present in the DCT and collecting tubules.
- present in blood capillaries.

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

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4.1.5. The osmolarity of body fluids is maintained at _____.

Author: OpenStax College

The osmolarity of body fluids is maintained at _____.

Please choose only one answer:

- 100 mOsm
- 300 mOsm
- 1000 mOsm
- it is not constantly maintained

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

Question: [The osmolarity of body fluids is maintained OpenStax College Biology](#)

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4.1.6. The gland located at the top of the kidney is the _____ gland.

Author: OpenStax College

The gland located at the top of the kidney is the _____ gland.

Please choose only one answer:

- adrenal
- pituitary
- thyroid
- thymus

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

Question: [The gland located at the top of the kidney OpenStax College Biology](#)

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4.1.7. Active transport of K⁺ in Malpighian tubules ensures that:

Author: OpenStax College

Active transport of K⁺ in Malpighian tubules ensures that:

Please choose only one answer:

- water follows K⁺ to make urine
- osmotic balance is maintained between waste matter and bodily fluids
- both a and b
- neither a nor b

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

Question: [Active transport of K in Malpighian tubules OpenStax College Biology](#)

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4.1.8. Contractile vacuoles in microorganisms:

Author: OpenStax College

Contractile vacuoles in microorganisms:

Please choose only one answer:

- exclusively perform an excretory function
- can perform many functions, one of which is excretion of metabolic wastes
- originate from the cell membrane
- both b and c

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

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4.1.9. Flame cells are primitive excretory organs found in _____.

Author: OpenStax College

Flame cells are primitive excretory organs found in _____.

Please choose only one answer:

- arthropods
- annelids
- mammals
- flatworms

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

Question: [Flame cells are primitive excretory organs OpenStax College Biology](#)

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4.1.10. BUN is _____.

Author: OpenStax College

BUN is _____.

Please choose only one answer:

- blood urea nitrogen
- blood uric acid nitrogen
- an indicator of blood volume
- an indicator of blood pressure

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

Question: [BUN is . OpenStax College Biology 41 Osmotic Regulation and Excretion](#)

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4.1.11. Human beings accumulate _____ before excreting nitrogenous waste.

Author: OpenStax College

Human beings accumulate _____ before excreting nitrogenous waste.

Please choose only one answer:

- nitrogen
- ammonia
- urea
- uric acid

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

Question: [Human beings accumulate before excreting OpenStax College Biology](#)

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4.1.12. Renin is made by _____.

Author: OpenStax College

Renin is made by _____.

Please choose only one answer:

- granular cells of the juxtaglomerular apparatus
- the kidneys
- the nephrons
- All of the above.

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

Question: [Renin is made by . OpenStax College Biology 41 Osmotic Regulation](#)

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4.1.13. Patients with Addison's disease _____.

Author: OpenStax College

Patients with Addison's disease _____.

Please choose only one answer:

- retain water
- retain salts
- lose salts and water
- have too much aldosterone

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

Question: [Patients with Addison's disease . OpenStax College Biology 41 Quest](#)

Flashcards:

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4.1.14. Which hormone elicits the "fight or flight" response?

Author: OpenStax College

Which hormone elicits the "fight or flight" response?

Please choose only one answer:

- epinephrine
- mineralcorticoids
- anti-diuretic hormone
- thyroxine

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

Question: [Which hormone elicits the fight or flight OpenStax College Biology](#)

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