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Crash Course Biology (2012) #29: The Excretory System

Name: _____ Date: _____

You can access the video here → <https://youtu.be/WtYogYenUhi?list=PLAKLAQEAIP9pJZN>

1. Maintaining a stable internal environment is called _____.
2. _____ (also called the urinary system) includes the kidneys, ureters, bladder, and urethra.
3. The body's balancing of water and dissolved substances—_____—prevents dehydration.
4. Breaking down proteins produces toxic _____ that must be dealt with.
5. In the liver, ammonia combines with CO_2 to form _____, a low-toxicity compound.
6. Birds and many desert animals conserve water by excreting nitrogen as _____ rather than urea.
7. Your _____ filter ~180 liters of fluid daily but reabsorb about 99% of it.
8. Each kidney contains ~1,000,000 _____, the functional filtering units.
9. Filtration begins in the _____, a tuft of porous capillaries under high pressure.
10. Fluid collected by the cup-like _____ then enters the nephron's tubules.
11. Once it leaves the blood, the fluid is called _____ as it moves through the nephron.
12. Most organic solute reabsorption happens in the _____.
13. By creating a hypertonic medulla, the _____ concentrates urine by extracting water and pumping salts.
14. Alcohol suppresses _____, so collecting ducts become less porous and you produce dilute urine.
15. From the bladder, urine exits the body through the _____.

Crash Course Biology (2012) #29: The Excretory System - KEY

1. Maintaining a stable internal environment is called **homeostasis**.
2. **Excretory system** (also called the urinary system) includes the kidneys, ureters, bladder, and urethra.
3. The body's balancing of water and dissolved substances—**osmoregulation**—prevents dehydration.
4. Breaking down proteins produces toxic **ammonia** that must be dealt with.
5. In the liver, ammonia combines with CO_2 to form **urea**, a low-toxicity compound.
6. Birds and many desert animals conserve water by excreting nitrogen as **uric acid** rather than urea.
7. Your **kidneys** filter ~180 liters of fluid daily but reabsorb about 99% of it.
8. Each kidney contains ~1,000,000 **nephrons**, the functional filtering units.
9. Filtration begins in the **glomerulus**, a tuft of porous capillaries under high pressure.
10. Fluid collected by the cup-like **Bowman's Capsule** then enters the nephron's tubules.
11. Once it leaves the blood, the fluid is called **filtrate** as it moves through the nephron.
12. Most organic solute reabsorption happens in the **proximal convoluted tubule**.
13. By creating a hypertonic medulla, the **Loop of Henle** concentrates urine by extracting water and pumping salts.
14. Alcohol suppresses **Anti-diuretic Hormone**, so collecting ducts become less porous and you produce dilute urine.
15. From the bladder, urine exits the body through the **urethra**.

15 Questions

Answer Key Included

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