

Name: _____

Date: _____

Excretory System Practice Stencil

1. a) Tubes that conduct urine from kidneys to bladder ureters
- b) Tube that carries urine out the body urethra
- c) Expandable sac that holds urine bladder
- d) Gland that controls balance of blood composition in the body pituitary
- e) Equilibrium maintained by the body homeostasis

2. What are the two functions of the urinary system?

* get rid of excess water
*

3. What supplies the kidneys with blood they need to filter? Renal Artery

4. True or false?

- a) Urea and uric acid are formed when carbs are broken down F
- b) Mineral salts expelled in urine are also called electrolytes _____
- c) Urea give urine its color T
- d) The composition of urine is always stable F

5. Explain how the kidneys adapt their function in each of the following situations:

a) Maddy is sweating enormously after running on a hot day

absorb more water in intestine, kidneys
remove less water = ↓ urine

b) Anabelle will be going to the hospital in 3 days and was told to drink 8-10 glasses of water

Kidneys get rid of more water

c) Joe eats lots of salty foods at lunch today

blood equilibrium is more salty,
absorb water to balance blood
↓ urine

6. Nutritionists recommend that people only drink sports drinks during intense physical exercise. They contain lots of water and mineral salts. Why do you think they make this recommendation?

More salt = more water stays in blood - pee less
= sweat more.

7. Four-year-old Gale is suffering from incessant vomiting and diarrhea. They admit her to the hospital and immediately put her on IV solution, which has lots of mineral salts and glucose dissolved in water. Why do you think they do this?

hydrate

↓ for energy
Keeps blood
balance ↑ to keep water
in body.

8. The urethra in females is 3-4 cm long whereas in men it's about 20 cm long. Which gender do you think is more susceptible to urinary infections and why?

Women - shorter urethra = bacteria can get to
bladder faster.