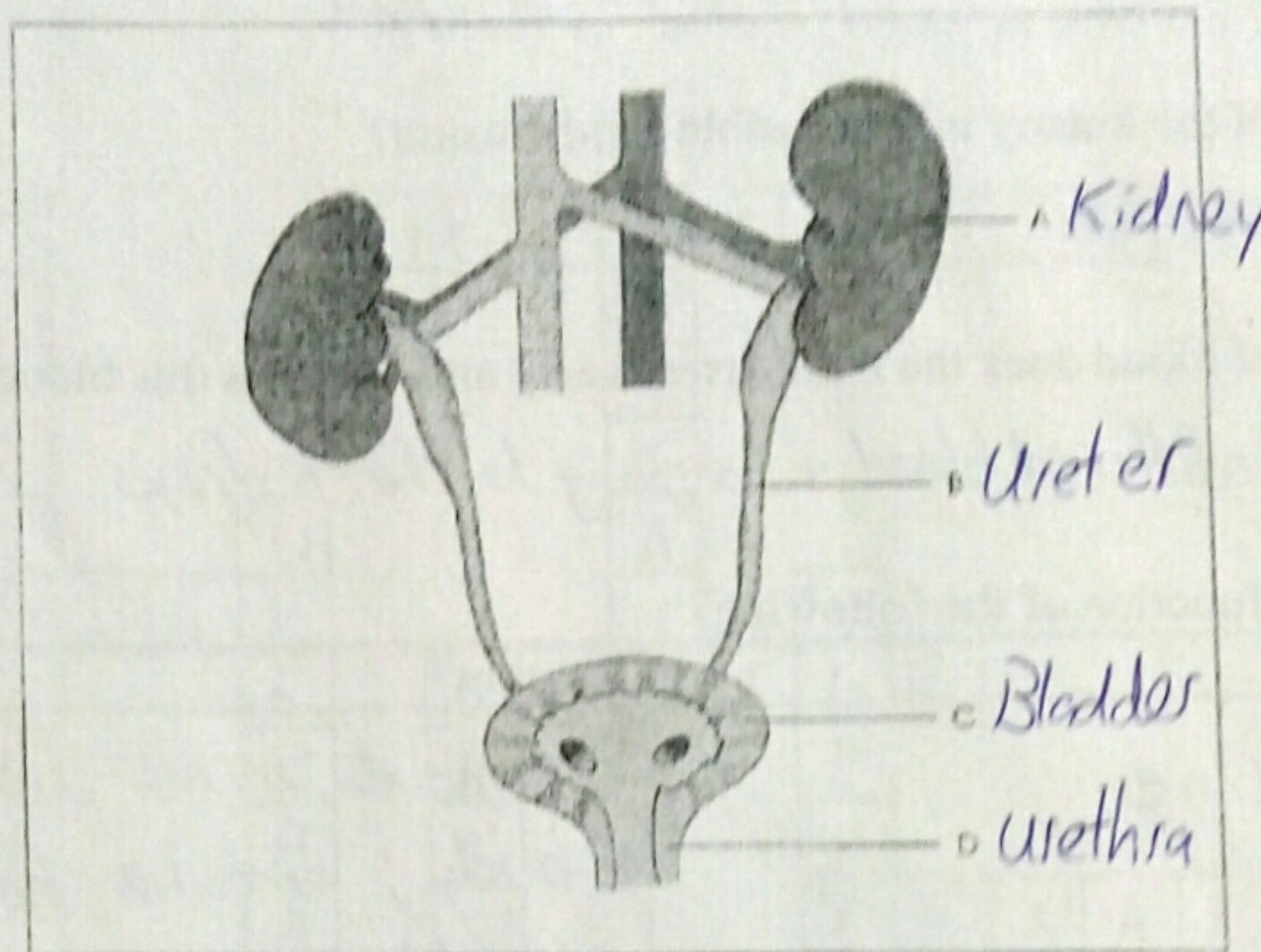


Name: Ans

Date: _____

The Kidneys

1. Name the structures identified by letters in the diagram below.



2. Which of the following statements is false?

- a. The kidneys keep the composition of the blood constant.
- b. They eliminate urea from the blood.
- c. They maintain a constant level of protein in the urine
- d. They regulate the quantity of minerals in the body.

3. Identify the following terms below:

a. The body's ability to maintain equilibrium:

homeostasis

b. Gland responsible for monitoring when balance in blood is disturbed:

Liver

c. Name given to waste produced by the body:

cellular waste

4. The doctor has advised Julia to drink eight glasses of water a day. In light of this information, which of the following explains what will happen in Julia's kidneys.

- a. More water will be reabsorbed and more urine produced.
- b. More water will be reabsorbed and less urine produced.
- c. Less water will be reabsorbed and more urine produced.
- d. Less water will be reabsorbed and less urine produced.

5. What wastes must be eliminated by the kidneys and how are they produced?
 Urea → converted by the liver from ammonia
 uric acid → by-product of meat digestion + fat digestion

6. What are the functions of the kidneys?
 - remove waste + excess substances
 - regulate water + mineral content in the blood

7. What part of the kidney is responsible for diffusion?
 The nephrons

8. What type of blood does the renal artery carry and where is this blood going?
 Carries unfiltered blood + is going to the kidneys

9. What is the function of the following?

Bladder	Urethra
- store urine	- remove urine from the body; a tube from the bladder

10. Which factors influence water absorption and urine production?

- Liquid consumption
- Activity level
- Environmental Temperature

11. How does the skin regulate body heat?

By dilating + constricting the blood vessels

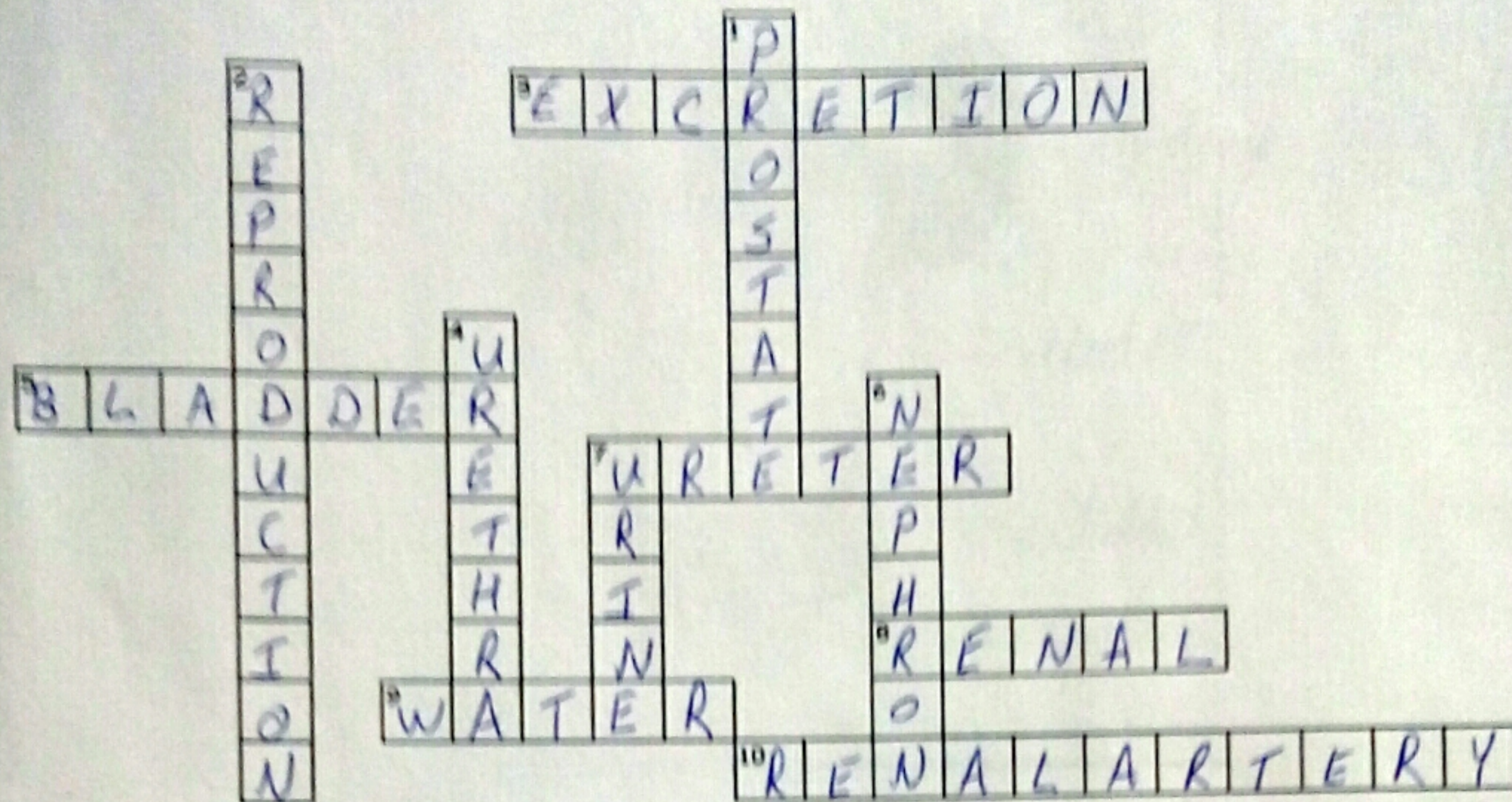
12. Describe at least two conditions that can be detected/diagnosed via a urine test.

Proteinuria Diabetes Hyperuricosuria

13. Name the main organs of the excretory system, what they excrete and how they do this.

Lungs	CO ₂	Respiration
Liver	Ammonia Urea	Filtering the blood
Kidney	Urea Uric acid Excess substances	" " "
Skin	Heat	Dilating / constricting blood vessels

The Kidneys Crossword



Across

- The process of getting rid of metabolic waste
- Where the urine is collected
- Tube that leads from the kidney to the bladder
- Another word for kidneys
- Makes up 95% of urine
- Supplies blood to the Kidneys

Down

- In men, the urethra passes through this gland
- In men the urethra is used for excretion and _____
- Tube leading out of the body
- Does the real work in the kidneys
- Name of the waste the kidneys produce