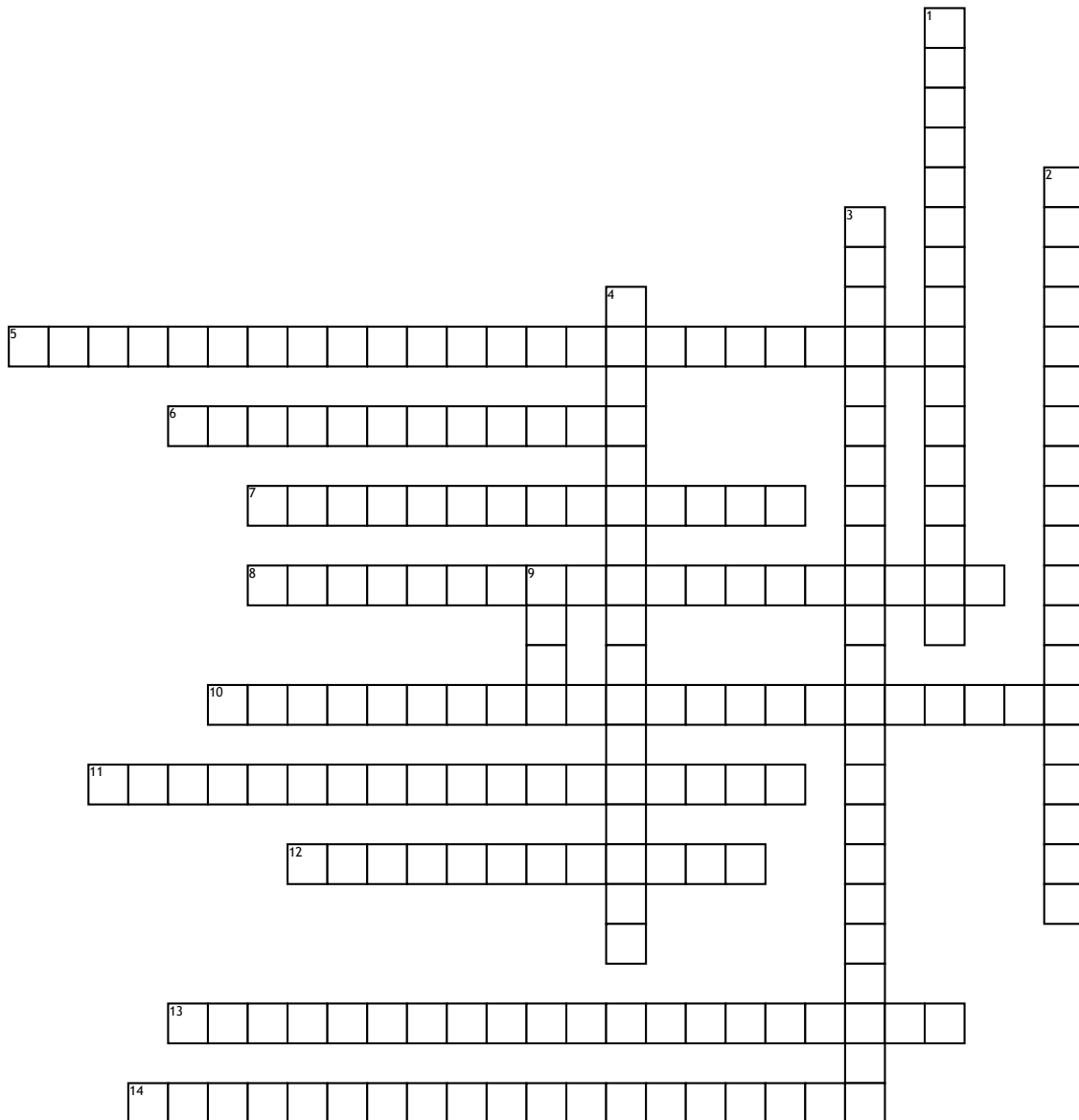


Kidney Physiology



Across

5. Amount of filtrate formed by the kidneys in 1 minute ~ 125 ml/min

6. Kidneys are unable to carry out vital functions

7. Rate kidneys remove substance from the blood

8. Reclaiming valuable substances

10. Created by proteins in plasma, pulls water into capillaries by osmosis

11. Na/glucose symporter, Na/K pump, & Na/H antiporter

12. Increase urine output & treat high blood pressure

13. Process where the nephron filters the blood

14. Na/glucose symporter or Carrier protein

Down

1. Waste products removed & excreted

2. Force of fluid in wall on its container, pushes water out of capillary into interstitial space

3. H⁺ ions secreted combine w/ HCO₃ & form H₂CO₃, then converted into CO₂ & H₂O. CO₂ combines w/ H₂O forming HCO₃ & H.

4. Transcellular route or paracellular route through aquaporins

9. Function is to maintain systemic blood pressure, second effect is to preserve GFR