

Ivy Tech APHY101 Chemistry Part Two: Biochemistry

1. Most *inorganic* compounds do not contain what element?
2. What are the four most important inorganic compounds in our bodies?
3. What is the most abundant inorganic compound in the body?
4. What are four of the most important qualities of water in our bodies?
5. What are *acids* and *bases* and how do they differ in their reaction to *protons* when combined with water?
6. What is *pH*? How do acids, bases, water, and blood rank on the *pH scale*?
7. What kind of chemical reactions are used to build and destroy *organic* compounds in our bodies?

8. What is the main role of *carbohydrates* in the body?
9. What are the building blocks of carbohydrates?
10. What two ways do our bodies store excess carbohydrates?
11. What are *lipids* and how do they react with water?
12. What important role do lipids play in our *cells*?
13. What is the difference between a *saturated* and an *unsaturated* fatty acid?
14. What are the two major roles of fat in our body?
15. Why is *cholesterol* important for our bodies?
16. What are the building blocks of *proteins* and how many common ones do we see?

17. What two ways do we differentiate proteins from one another?

18. What does *denatured* mean in relation to proteins and what two factors denature proteins?

19. What is an *enzyme* and why are they important?

20. What are the two most important *nucleic acids* in our bodies?

21. How do the two nucleic acids differ in their roles?

22. What are the building blocks of nucleic acids called and what are they made of?

23. What are the five most common nitrogenous bases?

24. What four nitrogenous bases are found in DNA and what four are found in RNA?

25. What is *ATP* and where does it come from in our bodies?