

Review Sheet for Biochemistry Test Name _____

1. List the 4 most common elements found in living things in order of abundance.
2. List 3 common trace elements in living things AND tell why they are important.
3. Name the 2 major types of compounds.
4. Name the most abundant inorganic compound.
5. Name the most common organic compound.
6. Name the 4 kinds of macromolecules we studied.

Matching: Match the type of carbohydrate to the correct statement.

A. monosaccharide

B. disaccharide

C. polysaccharide

- _____ 7. Example is starch
- _____ 8. Example is glucose
- _____ 9. Example is sucrose
- _____ 10. Formula is $C_6H_{12}O_6$
- _____ 11. Formula is $C_{12}H_{22}O_{11}$
- _____ 12. These carbs give us longer term energy reserves
- _____ 13. These carbs give us immediate energy
- _____ 14. a simple sugar
- _____ 15. many simple sugars chemically joined
- _____ 16. 2 simple sugars chemically joined
17. Name one food source that would contain monosaccharides.
18. Name one food source that would contain disaccharides.
19. Name one food source that would contain polysaccharides.

Matching: Match the macromolecule with the correct statement.

A. Carbohydrates B. Lipids C. Proteins D. Nucleic Acids

- _____ 20. Made of C, H, O with H:O being in a 2:1 ratio
- _____ 21. Made of C, H, O, N, S
- _____ 22. Made of C, H, O with H:O being in a ratio of much greater than 2:1
- _____ 23. Made from nucleotides
- _____ 24. Found in the nucleus of cells
- _____ 25. Used for long term energy storage
- _____ 26. Used for general growth and repair of cells in the body
- _____ 27. Used for immediate energy storage
- _____ 28. Examples are DNA and RNA
- _____ 29. Examples are starch and sugar
- _____ 30. Examples are fats, oil, waxes, etc
- _____ 31. Examples are hormones, enzymes, etc
- _____ 32. Made from glycerol and fatty acids
- _____ 33. Amino acids are the building blocks
- 34. Name a type of saturated fat.
- 35. Name a type of unsaturated fat.
- 36. Name a food that is high in protein content.
- 37. Name a food high in lipid content.
- 38. What does DNA do for us?
- 39. What does RNA do for us?
- 40. Name one example of a hydrogenated vegetable oil.
- 41. What is the term that means making a large molecule with the removal of a water molecule?
- 42. What element is found in ALL organic molecules?
- 43. What does ATP give us?
- 44. What is the study of the chemical reactions that occur in living things called?
- 45. 2 elements that are chemically combined are called what?
- 46. In a water molecule, what makes up the positive end? Negative end?
- 47. pH of rain water is _____, pure water pH is _____.
- 48. The boiling point of water is affected how by elevation?
- 49. The 3 parts of a nucleotide are?
- 50. Factors affecting an enzymes activity level are?
- 51. Know the location and role of the enzyme, substrate and active site.