

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Amino acid is to protein as
a. fat is to lipid. c. sugar is to fat.
b. DNA is to RNA. d. simple sugar is to starch.
- _____ 2. A monosaccharide is a
a. carbohydrate. c. nucleic acid.
b. lipid. d. protein.
- _____ 3. Which of the following organic compounds is the main source of energy for living things?
a. carbohydrates c. nucleic acids
b. lipids d. proteins
- _____ 4. Which of the following is NOT a function of proteins?
a. store and transmit heredity
b. help to fight disease
c. control the rate of reactions and regulate cell processes
d. build tissues such as bone and muscle
- _____ 5. Which statement is true?
a. Simple sugars are made of polysaccharides.
b. Glycerol is made of fatty acids.
c. RNA molecules are made of nucleotides.
d. Amino acids are made of proteins.
- _____ 6. In chemical reactions, atoms are
a. created. c. rearranged.
b. destroyed. d. neutralized.
- _____ 7. Enzymes affect the reactions in living cells by changing the
a. products of the reaction. c. temperature of the reaction.
b. speed of the reaction. d. pH of the reaction.

True/False

- _____ 8. Lipids are important parts of biological membranes and waterproof coverings.
- _____ 9. Polysaccharides are formed through the process known as polymerization.
- _____ 10. Proteins that speed up the rate of chemical reactions in the cell without requiring high temperatures are antibodies.

Matching

Answers will be used more than once.

C. Carbohydrates**L. Lipids****P. Proteins****NA. Nucleic Acids**

- _____ 11. Forms Cell membranes
- _____ 12. Contains the genetic code for making proteins
- _____ 13. Skin, enzymes and muscles are examples
- _____ 14. Starch and glycogen are examples
- _____ 15. Steroids are an example
- _____ 16. Main energy source
- _____ 17. RNA and DNA are examples
- _____ 18. Nucleotides are monomers
- _____ 19. Amino acids are monomers
- _____ 20. $C_6H_{12}O_6$
- _____ 21. Fatty acids and glycerol are monomers
- _____ 22. Monomers are monosaccharides
- _____ 23. Saturated and unsaturated
- _____ 24. Contains carbon, hydrogen and oxygen
- _____ 25. Do NOT test food for this organic compound
- _____ 26. Makes up body structures
- _____ 27. Contains phosphorous
- _____ 28. Dipeptides and polypeptides
- _____ 29. Second energy source
- _____ 30. Contains sulfur

Multiple Choice

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- _____ 31. Monomers are linked together to make
A. Ions B. Polymerization C. Polymers D. Building Blocks
- _____ 32. Like carbohydrates, lipids contain
A. Carbon hydrogen and oxygen only B. Carbon, hydrogen, oxygen and phosphorous
C. Carbon, hydrogen, oxygen and nitrogen D. Carbon nitrogen and oxygen only
- _____ 33. The most abundant organic compound in the world is
A. Protein B. Chitin C. Water D. Cellulose
- _____ 34. Animals store excess glucose as _____ in the liver
A. Starch B. Protein C. Cholesterol D. Glycogen
- _____ 35. Which of the following is NOT an organic compound?
A. H₂O B. C₁₂H₂₂O₁₁ C. DNA D. Hormones
- _____ 36. Brown paper is an indicator for
A. Nucleic Acids B. Proteins C. Lipids D. Carbohydrates
- _____ 37. Biurets is an indicator for
A. Carbohydrates B. Lipids C. Proteins D. Nucleic Acids
- _____ 38. Benedicts is an indicator for
A. Monosaccharide B. Polysaccharide C. Lipids D. Proteins
- _____ 39. Iodine is an indicator for
A. Monosaccharide B. Polysaccharide C. Proteins D. Lipids
- _____ 40. Starch is an example of a
A. Monosaccharide B. Polysaccharide C. Protein D. Lipid
- _____ 41. This type of bond holds amino acids together
A. hydrogen B. Covalent C. Ionic D. Peptide