

**1- Cells as a System (19 questions - 35% of the test)**

Info found in Unit 1 and Unit 2 Notes Packets

A. List 7 characteristics of living things  
\_\_\_\_\_

which ones do viruses have?

B. Which scientist made each contribution to Cell Theory?

a. Developed the first good microscope and observed cells in a slice of cork.  
\_\_\_\_\_

b. Observed animals and determined that all animals are made of cells.  
\_\_\_\_\_

c. Observed plants and determined that all plants are made of cells.  
\_\_\_\_\_

d. Observed that cells come from preexisting cells. \_\_\_\_\_

C. Put these terms in order from simplest to most complex: atom, cell, molecule, organ, organism, system, tissue.

D. Mark whether each piece of evidence supports the statement that viruses are Living (L) or Nonliving (N).

\_\_\_\_\_ Viruses contain DNA or RNA.

\_\_\_\_\_ Viruses can evolve.

\_\_\_\_\_ Viruses are not made of cells.

\_\_\_\_\_ Viruses must use host cell machinery to reproduce.

\_\_\_\_\_ Viruses do not respond to light or heat.

\_\_\_\_\_ Viruses are surrounded by a protein capsid.

E. Identify each as belonging to Carbohydrates, Lipids, Proteins, or Nucleic Acids:

\_\_\_\_\_ CHO- 2:2:1

\_\_\_\_\_ CHO- 3:1:1

\_\_\_\_\_ CHON

\_\_\_\_\_ CHONP

\_\_\_\_\_ fatty acid chains

\_\_\_\_\_ amino acid

\_\_\_\_\_ nucleotide

\_\_\_\_\_ glycerol

\_\_\_\_\_ monosaccharide

\_\_\_\_\_ polypeptide



# Mississippi Biology State Test Study Guide

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