

**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- 1:1:1

\_\_\_\_\_ CHON

\_\_\_\_\_ CHONP

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

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

\_\_\_\_\_ nucleotide

\_\_\_\_\_ glycerol

\_\_\_\_\_ monosaccharide

\_\_\_\_\_ polypeptide



# New Jersey Biology State Test Study Guide

**Anthony S. Fauci**



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