Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Page \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Notes – Hierarchical Organization**

1. How is the body organized? 1. Hierchary
2. What is a cell? 2. Basic unit of a structure function in the body
3. What determines the shape 3. Its function

of a cell?

1. Define Organelle 4. A structure within a cell that carries out various necessary for a cell to

function properly

1. List 3 basic organelles 5. Nucleus, Cytoplasm, Cell Membrane

found in most cells.

1. List 3 organelles found within 6. Ribosomes, Lysosomes, Mitochondria, Golgi Body & Endoplasmic Reticulum

a cell.

1. Define tissue. 7. A group of similar cells performing the same or similar function
2. List & describe the 4 types 8. Muscle - responsible for movement

of body tissue. Nervous - responsible for delivering messages through the for of electrical

impulses, from the brain to the rest of the body

Connective - supports and connects the body

Epithelial - covers the inside & outside of the body as well as lines most of

the internal organs

1. What is an organ? 9. A group of similar tissues that perform similar, specific, and often complex

function

1. What is an organ system? 10. A group of organs that work together to perform a major function
2. List the major organ systems 11. Nervous, Circulatory, Respiratory, Digestive, Excretory, Immune,

found within the body Muscular, Skeletal & Endocrine

1. Put the following structures in order from **LEAST** complex to **MOST** complex.

Organelles, Cells, Tissue, Organ, Organ System & Organism

2. Why are cells specialized?

They are specialized because of their specific function