1. Fill in the five levels of human body organization from smallest to largest.

Cells  Tissue  Organs  Organ Systems  Organism

2. Place the five examples below in order from largest to smallest:
Stomach, Epithelial Tissue, You, Digestive System, Parietal cells

3. Give an example of how your body would maintain homeostasis in the following situations:
   a. You have gotten cold while sledding and playing in the snow in January
      Your body will shiver to warm your body temperature up
   b. You are exercising by cross-country skiing and need more oxygen for your muscles.
      Your breathing rate will get faster to bring in more oxygen AND your heart will pump faster/harder to move more blood carrying oxygen to your body
   c. You ate a lot of snow and it melted and turned into water in your excretory system.
      The excess water will be filtered from your blood by your kidneys and then it will move to your bladder before leaving the body when you go tinkle

Name: ___________________________

Use the following websites to help you with this worksheet:

http://www.ck12.org/biology/Homeostasis/lesson/Homeostasis/?referrer=concept_details
Complete the graphic organizer by defining each level of human body organization in the center shape and giving specific examples at each level in the shapes off the center. For the types of tissue, give the function of each type. For the examples of organs and organ system, list the names.

**Cell:**
The basic unit of structure and function in living things

- **Muscle Tissue** – makes the body move by contracting and relaxing
- **Connective Tissue** – support, connects & fills body parts
- **Nervous Tissue** – carries the electrical messages between the brain & body
- **Epithelial Tissue** – covers the surfaces of the body, both inside and out

**Tissue:**
A group of similar cells that perform the same function

**Organ:**
A more complex group of different types of tissue working together to perform a specific job

- **Brain**
- **Stomach**
- **Lungs**
- **Heart**
- **Skin**
- **Kidney**
- **Ear, Eye, AND MANY, MANY OTHERS!!!**

**Organ System:**
A group of organs working together to perform a major function

- **Integumentary**
- **Muscular**
- **Skeletal**
- **Digestive**
- **Excretory**
- **Respiratory**
- **Circulatory**
- **Nervous**

**Organism:**
All the organ systems working together to make a living thing