**Organ Systems Test Review Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Complete the flow chart showing the levels of organization from **smallest to largest:**

Cells

Organism

**2. Complete the blank spaces on the chart for the functions and major components of each system.**

**Systems:** Circulatory, Nervous, Muscular, Skeletal, Integumentary, Endocrine, Digestive, Respiratory, Lymphatic, Excretory/Urinary, Reproductive

|  |  |  |
| --- | --- | --- |
| **System** | **Function** | **Major Organs/Components** |
|  | Protects from water loss and the outside environment | Skin |
|  | Plays a major role in gas exchange | Lungs, Bronchi, **Alveoli** |
| Muscular |  | Muscles |
|  | Transports gasses and nutrients |  |
|  | Supports the body and gives structure, also produces blood cells | Bones |
|  | Regulates hormones which control mood, growth, development, etc. |  |
|  | Provides defense against pathogens |  |
| Excretory/Urinary |  | **Kidneys** |
|  | Mechanical and chemical breakdown of food |  |
|  | Senses changes in the environment and coordinates responses |  |
|  | Provides the ability to reproduce | Uterus, Testes |

3. You step on a tack and then automatically jerk your foot away. Then you decide to pick up the tack and place it where it goes in a drawer. What systems are you using to complete these tasks?

4. You run in a 5K to help raise money for cancer research. The race takes you 17 minutes to run. At the end of the race your heart is racing and you are breathing heavily. 30 minutes after the race your heart rate (pulse) and breathing are back to normal. What systems are at work and what are they doing?

Draw a line graph to show what was happening to your pulse rate and breathing rate during the race and after the race?



5. Define homeostasis and give an example of homeostasis.

6. Choose two body systems that work together. Explain how they work together.

**Plant structures review: Know how some human organ system compare and relate to plant structures.**

For example, how can the circulatory system, respiratory system, and reproductive system be related to stems, leaves, and flowers?

**Plant Systems Review**

**Plant Systems**

**Root**

7. What are the functions of the root?

**Stem**

8. What are the functions of the stem?

9. Explain the function of **xylem & phloem**.

**Leaves**

10. What are the functions of the leaf?

11. What is the function of the **stomata**?

**Flowers**

12. What is the function of the flower?