

Part I- Integumentary System

1. What is the major purpose of the integumentary system? (describe homeostasis)
2. What are the 3 layers of skin? What can be found in each of the layers?

Part II- Skeletal System

3. What are the major purposes of the skeletal system?

Part III- Muscular System

4. What is the purpose of the muscular system?
5. Describe briefly how a muscle works. (ie- push vs pull)

Part IV- Circulatory System

6. Draw a heart and correctly label the parts.
7. Describe the flow of blood through the heart. Which blood is oxygenated? Deoxygenated?
What is systemic blood flow? Pulmonary blood flow? (lungs)
8. What are the purposes of veins, capillaries and arteries?
9. What are 2 ways you can tell the difference between a vein and an artery? (for example- size?, valves?)
10. How does the circulatory system maintain homeostasis? (think gas exchange!)

Part V- Respiratory System

11. What is the purpose of the respiratory system?
12. Explain the mechanics of breathing in terms of the diaphragm. (differentiate between contraction and relaxation)
13. Describe the process of gas exchange in the lungs. (for example- alveoli)
14. How does the respiratory system maintain homeostasis through gas exchange? (think gas exchange!)

Part VI- Digestive System

15. Describe the role of the following enzymes:
Amylase Protease Lipase
16. What are the 2 types of digestion? Where does each type occur? (look at your chart!)
17. List the organs that make up the alimentary canal and their functions.
18. List the 4 stages of food processing in the correct order.
19. Describe the role of bile (for example- enzymes) in digestion. (Describe where it is made and where it is stored)

Part VII- Excretory System

20. List the 4 major parts of the Excretory System. (for example- K-U-B-U)
21. Describe how the kidney works to clean fluids. (for example- wastes vs water)
22. What is the function of each of the parts of the kidney?
23. Draw the kidney and label its parts.

Part VIII- Nervous System

24. What is a neuron? What 2 parts make it up?
25. Describe the two systems that make up the nervous system. (for example- central and peripheral)
26. Which part of the nervous system involves involuntary functions like breathing and digestion?
Hint: look at your brain drawing!!