**Biology Pre and Post Test #4**

**Topics: Plants, Animals, Systems**

1. Which of the following represents the correct order of organization in living things, from simple to more complex?
2. Lung, respiratory system, diaphragm, alveoli
3. Skeletal system, bone cell, bone, marrow
4. Heart cell, heart tissue, heart, circulatory system
5. Brain, nerve cell, spinal cord, nervous system



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1. On the diagram of the heart above, which vessels have oxygenated blood?
2. Vessels 1 and 4
3. Vessels 2 and 3
4. Vessels 1 and 2
5. Vessels 3 and 4
6. Which of these vessels brings blood from the body to the heart?
7. Inferior vena cava
8. Pulmonary vein
9. Pulmonary artery
10. Aorta
11. Which vessel takes oxygenated blood to the body?
12. Vena cava
13. Pulmonary vein
14. Pulmonary artery
15. Aorta
16. The upper chambers of the heart are called
17. Aorta
18. Atrium
19. Ventricle
20. Vena cava
21. Much of the water that plants take up from the soil is lost from the leaves. This process is called
	1. Transpiration
	2. Cohesion
	3. Filtration
	4. Capillarity
22. To minimize water loss, leaves have a waxy coating. This is called the
	1. Epidermis
	2. Cuticle
	3. Guard cell
	4. Mesophyll
23. Which of the following is a function of the roots in plants?
	1. To store food
	2. To anchor the plant
	3. To take in water and minerals
	4. All are correct
24. Plants have tubes or vascular tissue to carry materials. Which of the following is correct about these tubes?
	1. Phloem carries water up, xylem carries food down
	2. Xylem carries water up, tracheids carry food down
	3. Xylem carries water up, phloem carries food down
	4. Phloem carries food up, xylem carries water down
25. In order to survive, animals must be able to respond to their environment. Which system gives them this ability?
	1. Respiratory
	2. Digestive
	3. Circulatory
	4. Nervous
26. Mammals have a muscle for breathing called the
	1. Diaphragm
	2. Meninges
	3. Mesentery
	4. Sarcomere

**Matching: Match the animal group with their traits below.**

1. Breathe with gills, body covered with scales, 2 chambered heart a. mammals
2. Live a “double life”, skin is moist, 3 chambered heart b. reptiles
3. Dry, scaly skin, lay eggs with shells, well developed brain c. birds
4. Body covered with hair, warm blooded, 4 chambered heart d. fish

e. amphibians