Circulatory and Respiratory System Review

1. **What is the function of the Respiratory System?**
   - The function is to take in oxygen and expel carbon dioxide.

2. **What is the function of the Circulatory System?**
   - The system is responsible for the flow of blood, nutrients, hormones, and oxygen to and from cells throughout the body.

3. **What is the function of the sinuses in the Respiratory System?**
   - Sinuses regulate the temperature and humidity of the air we breathe.

4. **What is the function of the trachea in the Respiratory System?**
   - The trachea is also called the windpipe; its job is to help filter the air we breathe.

5. **What is the function of the bronchi tubes in the Respiratory System?**
   - The bronchi are tubes that carry air into the lungs; they are lined with cilia that carry mucus up and out.

6. **Where does the exchange of gases occur in the Respiratory System?**
   - The exchange of gases occurs in spongy sacs in the lungs called the alveoli.

7. **In what system would you find the diaphragm?**
   - The diaphragm is in the Respiratory System.

8. **What is the diaphragm and where is it located?**
   - The diaphragm is a dome shaped muscle at the base of the lungs that controls breathing.

9. **What part of the Respiratory System separates the abdominal cavity from the chest cavity?**
   - The diaphragm

10. **What is the diaphragm and where is it located?**
    - The diaphragm is a dome shaped muscle at the base of the lungs that controls breathing.

11. **How are the right and left lungs different?**
    - The left lung has two lobes and the right lung has three lobes. The left lung is smaller to make room for the heart.

12. **What type of doctor would you go see if you had a problem with your Respiratory System?**
    - Pulmonologist

13. **What is the study of the Respiratory System called?**
    - Pulmonology

14. **What is homeostasis?**
    - Homeostasis occurs when the human body systems are all working together to maintain balance.

15. **What are the main parts of the Circulatory System?**
    - Cardio Vascular (heart), Pulmonary (lungs), and Systemic (arteries, veins, and vessels)

16. **Complete the following sentence: The Cardio Vascular System is made up of the ...**
    - Heart, blood, and vessels
17. **Explain the Pulmonary Loop.**

Oxygen depleted blood moves from the heart to the lungs through the pulmonary arteries, carbon dioxide is released and oxygen is absorbed, and then oxygenated blood returns to the heart through pulmonary veins.

18. **What organ makes up the pulmonary part of the Circulatory System?**

The lungs

19. **The systemic part of the Circulatory System is made up of what parts?**

Arteries, veins and vessels

20. **What is the function of arteries, veins, and vessels?**

They are the body's highways... They provide oxygen, nutrients, and hormones to service the cells throughout the body.

21. **What type of doctor would I see if I had a Circulatory System disorder?**

Cardiologist

22. **What is the study of the Circulatory System?**

Cardiology

23. **What happens to your heart rate when you increase physical activity?**

During sustained physical activity the heart rate increases because the body needs more oxygen and nutrients.

24. **How does your respiration rate change when you increase physical activity levels?**

During physical activity your respiration rate will increase because there is an increased need for oxygen in the blood.

25. **How do the Respiratory System and the Circulatory System work together?**

The Circulatory System carries necessary items throughout the body and the lungs enrich the blood by acting as a gas exchange. (Out with the carbon dioxide and in with the oxygen.)

26. **Name a disease of the Circulatory System.**

Arteriosclerosis, stroke, hypertension (any of these would be a correct answer)

27. **Name a viral illness of the Respiratory System.**

Influenza or pneumonia

28. **Name a chronic disease of the Respiratory System.**

Asthma, COPD

29. **What is the function of the lungs in the Circulatory System?**

The lungs remove carbon dioxide from the blood and absorb oxygen.

30. **What is the chemical symbol for oxygen? Carbon dioxide?**

O₂ - Oxygen  CO₂ - Carbon Dioxide

Finally you will need to write a paragraph explaining how the two systems work together to keep the human body in homeostasis.