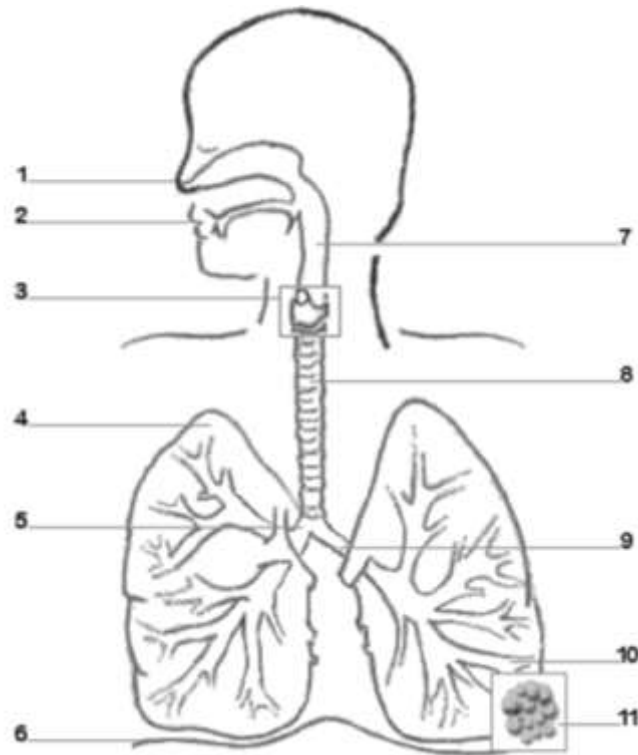


**G10 Science: Class 7 Homework**

1. Label the following diagram and explain the function of each organ: [22 marks]



	Structure	Function
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

2. What is the role of the goblet cells and cilia in the trachea of the respiratory system? **[2 marks]**
  
  
  
  
  
  
  
  
  
  
3. Explain the difference between breathing and gas exchange. **[2 marks]**
  
  
  
  
  
  
  
  
  
  
4. Describe two similarities and two differences between the respiratory systems of humans and fish. **[4 marks]**
  
  
  
  
  
  
  
  
  
  
5. Differentiate between a tendon and a ligament. **[2 marks]**
  
  
  
  
  
  
  
  
  
  
6. Bone fractures are more common among senior citizens than among young people. Propose an explanation. **[3 marks]**

7. Sketch and label a neuron. **[7 marks]**

8. What is Multiple Sclerosis and list 3 symptoms of MS. **[4 marks]**

9. It has been suggested that everyone should be required to be an organ donor. What are the arguments for and against this suggestion? Where do you stand? Explain your position. **[4 marks]**

10. Your friend tells you that she has had special training that helps her hold her breath for long periods of time. She claims that she can swim underwater for almost 30 minutes. What is your reaction? Explain why. **[3 marks]**

11. Imagine that doctors identified a disease that causes the smooth muscles in the human body to stop working. What consequences would this disease have for the person suffering from it? **[3 marks]**

12. As you travel to high altitudes, the concentration of gases in the air, including oxygen decreases.

a. What effect does the environment have on your breathing? **[2 marks]**

b. How might a runner who trained at sea level perform in a race taking place at 2000m above sea level? Explain. **[2 marks]**

13. Explain how the muscle tissue and the nerve tissue work together to control the respiratory system. **[3 marks]**