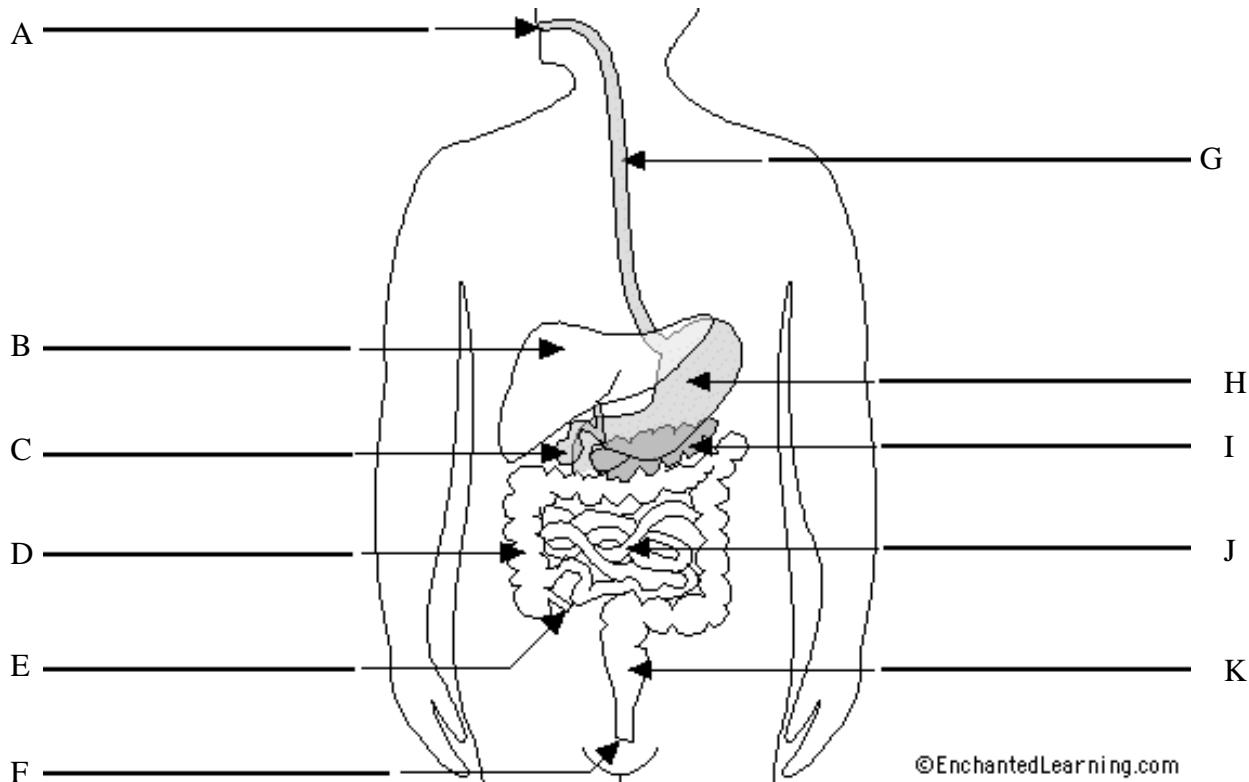


G10 Science: Class 5 Homework

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



| | Structure | Function |
|---|-----------|----------|
| A | | |
| B | | |
| C | | |
| D | | |
| E | | |
| F | | |
| G | | |
| H | | |
| I | | |
| J | | |
| K | | |

2. What is the difference between an embryonic stem cell and a tissue stem cell? **[2 marks]**

 3. Which type of tissue and organ contracts to push food through the digestive system? What is this contraction called? **[3 marks]**

 4. Briefly describe one disease or illness that can result from a problem in the digestive system. **[3 marks]**

 5. Explain how the circulatory system interacts with the digestive system. **[2 marks]**

 6. In a developing fetus, the mother's blood provides all of the necessary nutrients and removes waste. Why is it necessary for an expectant mother to pay close attention to her diet and lifestyle choices? **[2 marks]**

 7. Briefly describe one disease or illness that can result from a problem in the circulatory system. **[3 marks]**

8. The following cross-sections show the three different blood vessels. Name each one and describe how its structure matches its function. [6 marks]



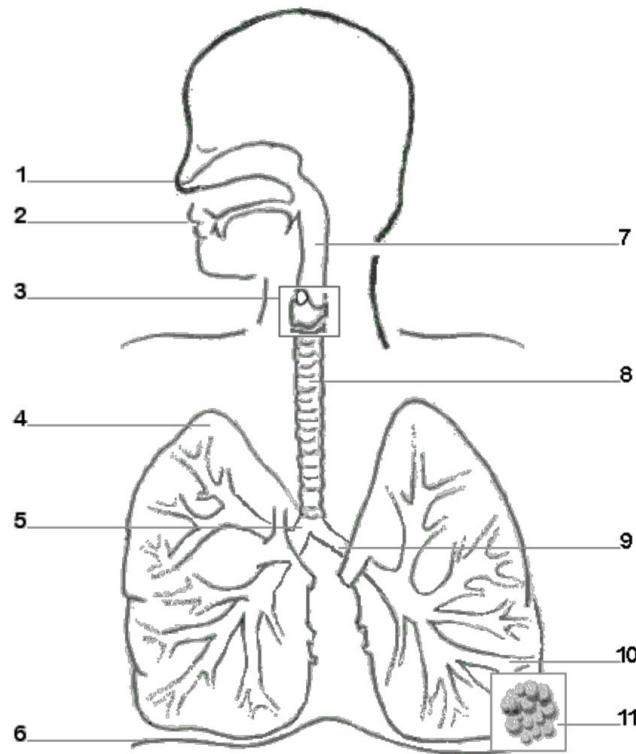
9. What is the role of the goblet cells and cilia in the trachea of the respiratory system? [2 marks]

10. Describe two similarities and two differences between the respiratory systems of humans and fish. [4 marks]

11. Differentiate between a tendon and a ligament. [2 marks]

12. Bone fractures are more common among senior citizens than among young people. Propose an explanation. [3 marks]

13. 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 | | |