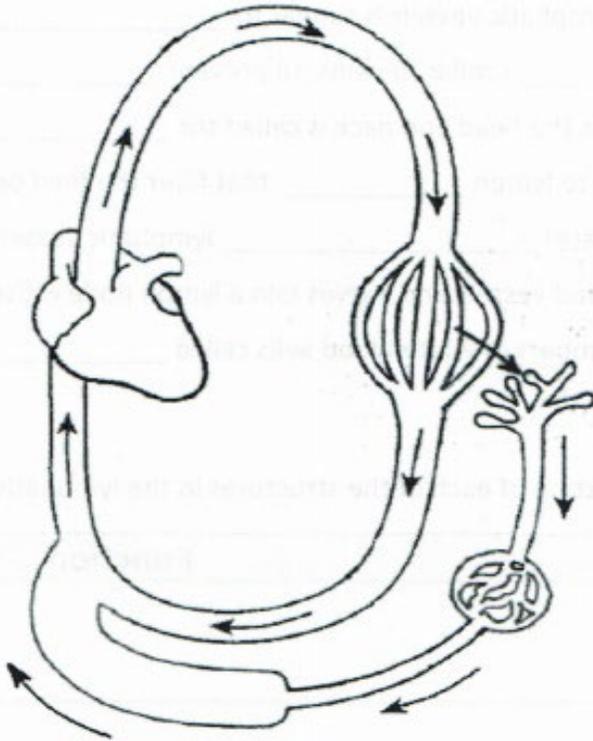


Appendix A

The Lymphatic System Worksheet

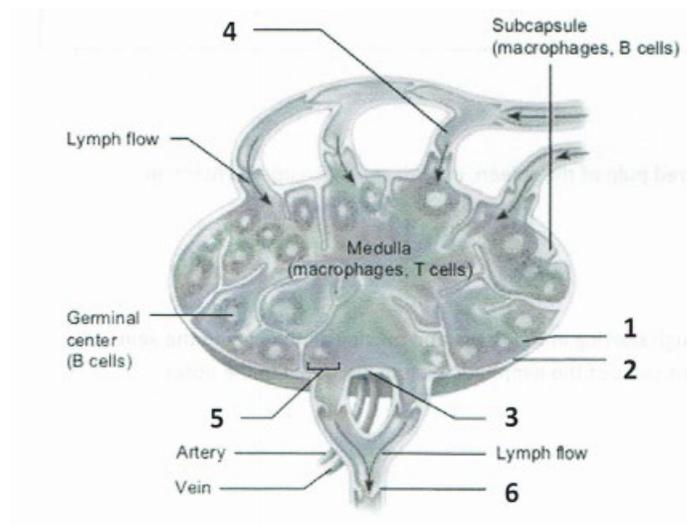
Using the list to the right, label the parts of the lymphatic and circulatory system on the diagram below.



- Artery
- Blood Capillary
- Vein
- Heart
- Lymphatic Capillary
- Lymphatic Duct
- Lymph Node
- Lymphatic Vessel

On the diagram above, color the following structures:

1. Color the arteries red
2. Color the veins blue
3. Color half the capillary bed red and the other half blue
4. Color the lymphatic capillaries, lymph node, lymphatic vessels, and lymph duct green



Label the diagram of lymph node by writing the correct numbers in the spaces provided:

- _____ Afferent lymphatic vessel
- _____ Efferent lymphatic vessel
- _____ Capsule
- _____ Hilum
- _____ Nodule
- _____ Sinus

Fill in the Blank

1. Lymphatic pathways begin as _____ that merge to form lymphatic vessels.
2. The wall of a lymphatic capillary consists of a single layer of _____ cells.
3. Once tissue fluid is inside a lymphatic capillary the fluid is called _____.
4. The structure of the walls of lymphatic vessels is similar to _____, but thinner.
5. Lymphatic also have _____, similar to veins, to prevent _____.
6. The lymphatic trunk that drains the head and neck is called the _____ trunk.
7. Lymphatic vessels usually lead to lymph _____ that filter the fluid being transported.
8. Lymph enters a node through a(n) _____ lymphatic vessel.
9. The indented region where blood vessels and nerves join a lymph node is the _____.
10. Lymph nodes contain large numbers of white blood cells called _____ and macrophages that fight invading microorganisms.

In the table below, summarize the function of each of the structures in the lymphatic system.

Structure	Function
Red Bone Marrow	
Thymus	
Spleen	
Lymph Nodes	

Short Answer

11. Explain the difference between the white and red pulp of the spleen, in both cell make up and function.

12. List the structures tissue fluid would pass through starting in the tissue and moving all the way to the veins (cardiovascular system). Include all the different parts of the lymphatic system discussed in the notes