What Is the Functional Histology Of Blood Vessels?

1. Name and describe the 3 layers of tissue found in blood vessels.

2. Indicate how the structure of a vein differs from an artery of the same size.

3. Compare the size and general histology of elastic arteries, muscular arteries and arterioles.

4. Regarding the microcirculation:
   - explain the function of a capillary bed and the role of "shunts"
   - indicate how blood is directed through capillary beds
   - explain how the histology of a capillary differs from that of an arteriole or venule
   - define the term "fenestrated capillary" and explain where such capillaries are found
5. Compare the general function of the arterial vs. venous systems and how this relates to the structure of the corresponding blood vessels:

   why do arteries have more muscle and elastic tissue?

   why do veins have valves?

6. Describe the disease atherosclerosis and indicate why plaques are dangerous.