The cardiovascular system quiz

1. **With regards to continuous capillaries**

    a. They are associated with pinocytotic vesicles
    b. They have a single layer of endothelium
    c. They have a thin tunica media
    d. They are found in muscle
    e. They have occluding junctions

2. **Fenestrated capillaries**

a. Are found in the gastrointestinal tract
b. May have kupfer cells on their walls
c. Do not have a basal lamina
d. Are characterized by intracytoplasmic pores
e. May be associated with pericytes

3. **Veins**

a. Have thinner walls than arteries
b. May contain valves
c. Resemble capillaries in structure
d. Have a collapsed lumen
e. Are the first component of the venous system

4. **In the heart**

a. The endocardium is equivalent to the tunica media
b. The tunica media consists of myocardium
c. The epicardium corresponds to the tunica intima
d. The left ventricle has the thickest layer of myocardium
e. The epicardium consists of mesothelial cells

5. **Large arteries**

a. Facilitate the uniform movement of blood
b. Have an inconspicuous internal elastic lamina
c. Do not have smooth muscle in their walls
d. Have tunica media as the thickest layer
e. Are found in endocrine glands

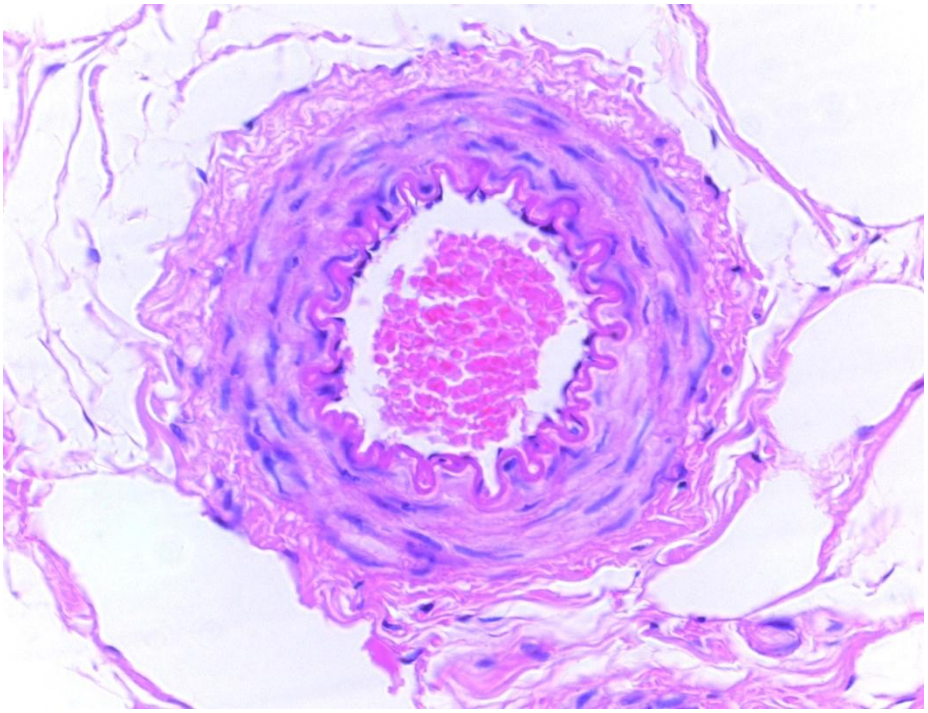
6. **Vasa vasorum are:**
    a. Blood vessels of the myocardium
    b. Nerves that supply the blood vessels
    c. Nerves of the heart
    d. Blood vessels within the walls of the blood vessels
    e. Blood vessels of the endocardium

7. **Pericytes**

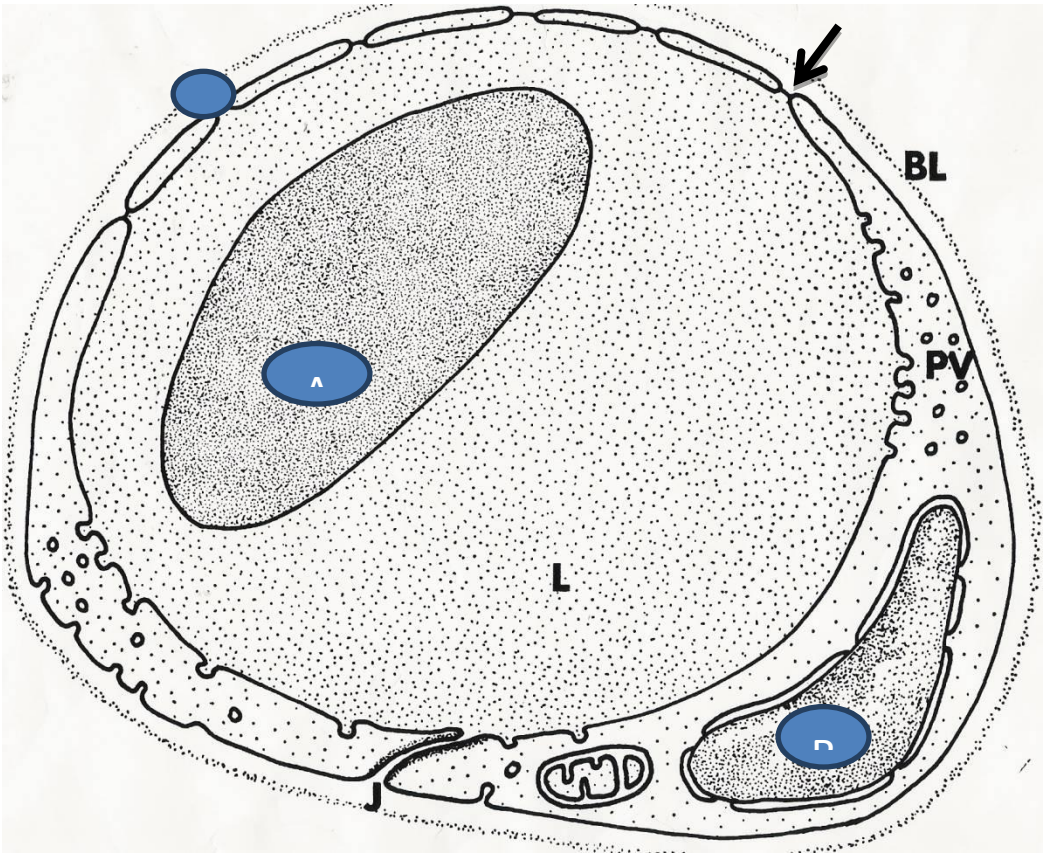
    a. Have branching cytoplasmic processes
    b. Have nuclei with abundant euchromatin
    c. Resemble mesenchymal cells
    d. Have an ability to give rise to smooth muscle
    e. Are found in the tunica adventitia

Describe the histology of a discontinuous capillary **5 marks**

Describe the histology of purkinje fibers **8 marks**



Give three (3) diagnostic criteria and a diagnosis for the structure shown



a) Identify the structure shown

b) Identify the structures labeled A and B

c) Identify the structure shown by an arrow