

Blood Vessels Quiz

- 1. If blood pressure drops, a negative feedback mechanism causes**
 - a. increase in capillary blood flow to insure that the cells get oxygen
 - b. vasoconstriction
 - c. vasodilation
 - d. activation of the venous reservoirs

- 2. What is the primary function of capillaries?**
 - a. to provide blood to various tissues of the body
 - b. to dissipate heat from the body
 - c. to divert blood away from the skin surface when the skin is exposed to extreme cold
 - d. the exchange of nutrients and wastes between the blood and body cells through the interstitial fluid

- 3. The property of arteries that contributes to a pressure reserve is the**
 - a. thick wall of smooth muscle that can be stimulated to change the vessel diameter
 - b. elastic recoil of the large arteries
 - c. transitional epithelium they contain
 - d. stiff walls due to the presence of collagenous fibers

- 4. Endothelium makes up the layer of the arteries called the**
 - a. tunica externa
 - b. tunica adventitia
 - c. tunica media
 - d. tunica intima

- 5. Sympathetic nerve impulses reach the heart via**
 - a. vasomotor nerves
 - b. cardiac accelerator nerves
 - c. the vagus (X) nerve
 - d. sensory afferent nerves

- 6. The exchange of nutrients and waste products takes place on through the walls of**
 - a. capillaries
 - b. arterioles
 - c. arteries
 - d. venules

- 7. Peripheral resistance is mainly affected by**
- a. elasticity of the heart
 - b. length of the myocardial fibers
 - c. capacity of the blood reservoirs
 - d. blood viscosity and the diameter of the arterioles
- 8. Aldosterone will**
- a. result in a larger output of urine
 - b. decrease sodium reabsorption
 - c. promote a decrease in blood volume
 - d. promote an increase in blood volume
- 9. The pulmonary arteries bring _____ blood to the _____.**
- a. oxygen-poor, left atrium
 - b. oxygen-rich, alveoli of the lungs
 - c. oxygen-poor, alveoli of the lungs
 - d. oxygen-rich, left atrium
- 10. The hepatic portal veins bring blood from the gastrointestinal tract to the _____.**
- a. spleen
 - b. liver
 - c. heart
 - d. kidneys

Solutions

1. b
2. d
3. b
4. d
5. b
6. a
7. d
8. d
9. c
10. b