CVS-Physiology

Archive

Lecture 8

Hemodynamics of blood flow

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CVS-Physiology Lecture 8

1- the total peripheral resistance increasing ?
hyperproteinemia

2- the total peripheral resistance Decreasing ?
muscular exercise

3- What is not true about mean arterial blood pressure?
Equals systolic pressure minus diastolic pressure

4- Arterioles are?
Resistance vessels

5- Which of the following is not matched regarding auto-regulation mechanisms?
Increased metabolic demand increase resistance

6- The blood flow increase in exercise in all the following except:
A- muscles
B. Heart
C. Lungs
D. Kidneys
E. None of the above
answer = D. Kidneys

7- Velocity of blood equals blood flow/___
A. Pressure gradient
B. Cross sectional area
C. Resistance
D. Blood vessel lenght
Answer: B. Cross sectional area

8- Which of the following is not true?
Select one:
a. Perfusion pressure is equal the Mean arterial blood pressure minus Central Venus pressure
b. Systolic pressure on average is 120mmHg
c. Diastolic pressure on average is 80mmIHg
d. If a patient's blood pressure is 83 mm Hg/SO mm Hg. his MAP would be 50 mm Ha
e. Mean arterial blood pressure determines the actual pressure by which will propel the substances out of the capillary beds into the tissues.
answer: A

CVS-Physiology Lecture 8

9- Which of the following is not true? Select one:
a. As you start to move from arterioles to capillaries the cross-sectional area and velocity are going to start rising
b. Increase the preload would increase the stroke volume and thus the perfusion blood pressure
C. Turbulent blood flow observed in both pathological and physiological conditions
d. Hypertension would increase afterload and thus decrease stroke
e. Polycythemia would decrease perfusion blood pressure
Answer= A