Small Group Quiz (Quiz #5)
October 2001
CIRCULATION

1) Blood flow velocity is
   a) highest in the arteries
   b) highest in the arterioles
   c) highest in the capillaries
   d) highest in the veins
   e) the same at each level of the vascular tree

2) What is the approximate mean arterial pressure in a person with a diastolic pressure of 60 mmHg, an arterial compliance of 2ml/mmHg and a cardiac stroke volume of 60 ml?
   a) 70 mmHg
   b) 80 mmHg
   c) 90 mmHg
   d) 100 mmHg
   e) Mean arterial pressure cannot be determined from these variables alone

3) Which of the following would result in the largest increase in flow (assuming laminar flow through a rigid tube)?
   a) a two-fold decrease in length of the tube
   b) a two-fold decrease in fluid viscosity
   c) a two-fold decrease in radius of the tube
   d) a four-fold increase in pressure difference from the inlet to outlet

4) Which of the following would result in an increase in fluid reabsorption into a capillary?
   a) an increase in capillary hydrostatic pressure
   b) an increase in interstitial oncotic pressure
   c) an increase in capillary oncotic pressure
   d) a decrease in interstitial hydrostatic pressure

5) An increase in carotid sinus baroreceptor activity will not result in
   a) a decrease in heart rate
   b) activation of the pressor center in the medulla
   c) a decrease in cardiac contractility
   d) peripheral vasodilation

   ↑ Baroreceptor + ↑ Pressure
   Pressor center raises pressure more
   ↑ HR ectic...
   ↑ HR ecto...