

D-277 Dental Physiology Quiz 3

Thursday, May 19, 2009

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Name

Student Number

(0.4 pts. for each correct answer)

1. Which one of the following would be most likely to benefit a patient in heart failure?
  - a. Increase blood volume via an intravenous injection
  - b. \*\*Reduce blood pressure by 5-10 mm Hg via the use of a vasodilator (afterload reduction)
  - c. Increase heart rate
  - d. Have the person assume a fully supine position
2. During which phase of the cardiac cycle does the first heart sound occur?
  - a. \*\*Isovolumic contraction
  - b. Ejection
  - c. Isovolumic relaxation
  - d. Filling
3. Patients in heart failure, when compared to normal people, have:
  - a. higher left ventricular end-diastolic pressures
  - b. lower ventricular contractility
  - c. higher end-diastolic wall stress
  - d. \*\* All of the above
4. Which one of the following statements about the relationship between vessels in series and in parallel with each other is correct?
  - a. Vessels in series with each other must have equal resistances
  - b. Vessels in parallel with each other must have equal resistances
  - c. \*\*Vessels in parallel with each other must have equal differences between their proximal and distal pressures ( $\Delta P$ )
  - d. Vessels in series with each other must have equal blood velocities in their lumens
5. An Ace bandage wrapped around a sprained ankle will reduce ankle swelling (edema) by increasing which one of the following?
  - a. The plasma oncotic pressure
  - b. The interstitial oncotic (osmotic) pressure
  - c. \*\*The interstitial hydrostatic pressure
  - d. The capillary hydrostatic pressure