QUIZ #3

1. Which of the following statements is false: the rate of diffusion across a respiratory surface will be greatest when:
   A. The ability of the substance to diffuse is high
   B. The area of the membrane is small
   C. The energy gradient is large
   D. The diffusion distance is small

2. Of the following, which is the most efficient (ie. greatest O2 extraction) ventilation strategy?
   A. Concurrent ventilation
   B. Countercurrent ventilation
   C. Crosscurrent ventilation
   D. All are equally efficient at extracting oxygen

3. The primary site of gas exchange (primary respiratory surface) for FISH is the:
   A. Gill arch
   B. Primary lamella
   C. Secondary lamella
   D. Gill filament

4. Which of the following is true of respiration in reptiles
   A. Most reptiles have a single lung
   B. Reptiles use crosscurrent ventilation
   C. ALL reptiles use a diaphragm during respiratory cycles
   D. The ventilator cycle of reptiles is triphasic

5. The primary site of gas exchange (primary respiratory surface) for BIRDS is the:
   A. Lungs
   B. Air sacs
   C. Parabronchi
   D. Air capillaries