1. What is the *secretory immunoglobulin* released in *breast milk*? What is its *valence*? List *4 other important compounds* in breast milk together with their *functions*.

2. What is the *relationship* among *antigen-presenting cells (APCs)*, *T-cells*, and *B-cells*? List *2 unique APCs*. What is the general function of an APC? List *3 subclasses of T-cells* together with their general *functions*. What are *interleukins (ILs)*? Identify *2 ILs* along with general *functions*.

3. Cardiovascular physiologists often view the heart as *2 separate pumps* with *2 primary functions*. What are these *2 unique pumps* along with *general functions*? Draw a *4-chambered box* representing the heart below and label each of the 4 chambers. What is the general *flow of blood* in the heart? From…to…to…

4. What are the *2 major valve sets/groupings* within the heart? What are the *unique characteristics* of these valve sets? What is *MVP*?

5. Draw a general schematic below of the major *coronary arteries* with primary branches. What does it mean to be *right-* vs. *left-heart dominant*? If an atheromatous lesion occurs in the *L main coronary artery*, what general *sequence of events* happen and what *tissues might be compromised* based on the time course of the occlusion? Indicate on your schematic with cross-hatching potential tissues that might be compromised.