Blood Vessels:  
What are the three tunics which make up blood vessels & their functions?  
How do arteries and veins differ?  
What are the different factors that aid in venous blood flow?  
What is the hepatic portal system of vessels?  
Define pulse pressure.  
What changes occur in the vascular system in response to vigorous exercise?  
What is peripheral resistance and how is it affected by vessel length & blood viscosity?  
How do hydrostatic & osmotic pressure combine to determine whether fluid enters or leaves capillaries?  
What are the vessels/structures that comprise the pulmonary circuit?  
How is blood pressure affected by changes in amount of RBC’s, plasma proteins & vasoconstriction/vasodilation?  
What are the first three major branches off of the aorta (after the coronary arteries)?

Lymphatic System & Immunity:  
What are the general functions of the lymphatic vessels and what happens if they are blocked?  
What is lymph & how is it formed?  
Be able to identify the major lymphatic vessels, clusters of lymph nodes & lymphatic organs.  
Be able to identify the parts of a lymph node.  
What are the mucosa associated lymphatic tissues (tonsils, payers patches, etc.)?  
How do lymphatic vessels resemble & behave like veins?  
What is the function of the thymus gland and how does it change with age?  
Be able to identify the spleen and its functions.  
What are the different types of white blood cells and their functions?  
What are the different types of lymphocytes and their functions?  
What are bubo’s?  
Where are the large clusters of lymph nodes located in the body?  
What are the three different types of tonsils and where are they located?  
What are antigens?  Antibodies?  
Be able to identify the components of an antibody (heavy chain, light chain, variable region, etc.)  
What type of bonds holds antibodies together?  
What is the difference between active and passive immunity?  Between natural & artificial?  
What is inflammation and what are its general functions?  
What is chemotaxis and what is its role in the immune response?  
What are interferons?  
What are the different types of tissue grafts?  

Respiratory System:  
Know the different respiratory organs, structures, cavities,  
Know the different respiratory volumes (tidal, insp. & exp. reserve, residual vol.s)  
What are the plural membranes and their function?  
What is Dalton’s law of partial pressures?  
What is surfactant and what is its function?  
What are the stimuli which control breathing?  
What is lung compliance and why is it important?  
How do the bronchial tubes change as they get smaller?  
What is the respiratory membrane?  
What type of mucosa lines the inside of the respiratory passages?