1. What are some of the causes of contact dermatitis? When does it most often occur after exposure (provide time course)? What type of hypersensitivity classification is contact dermatitis?

2. What are the two major branches of the immune system? Provide 2 specific examples within each of these branches and 2 specific contrasts between these branches (that is, noting how they differ). What are the two branches or subcategories of the acquired/adaptive immune system? What white blood cell subclass is involved in both branches by nature of its primary function (thus demonstrating overlap and false separation between these two acquired immune system branches)?

3. What is the primary function of the adaptive (acquired/specific) immune system? In most cases, adaptive immunity involves a lag time from exposure to response. What is the primary exception to this?

4. What is an immunoglobulin? Make a rough sketch of an immunoglobulin below. List general functions and subclasses and a unique characteristic of each subclass. Which immunoglobulin subclass is elevated in allergic reactions? Which is most prevalent in plasma? Which subclass has yet to have its function clarified? How might allergy shots or immunotherapy help reduce the severity of an allergic reaction?

5. What are two major phases of the pathophysiology of allergic inflammation? Briefly describe allergy testing. What is the 3-legged stool of allergy treatment? Briefly describe high-dose immunotherapy. Provide 2 examples of an auto-immune disease.