Skin Diagram Labeling

1. Label the diagram with the **letters** below according to the structure/area they describe. You may label with a line or put the label directly onto the area described. **Be as precise as possible.** If you are worried about the precision of your label add a word after to explain exactly where your label should be. Some structures maybe labeled more than once. *If the structure is absent from the diagram write the word **absent** next to the letter.*

   A. Stratum Corneum  
   B. Gland that nourishes the skin’s surface  
   C. Dermis  
   D. Structure(s) containing Keratin  
   E. Structure(s) involved in losing heat  
   F. Area where elastic fibers would be found  
   G. Site of pigment production that protects against UV radiation  
   H. Site where hemoglobin can be found  
   I. Areas where a high number of macrophages/phagocytes would be found  
   J. Free nerve endings  
   K. Epidermis  
   L. Structure(s) that causes goose bumps  
   M. Consists of simple squamous tissue  
   N. Consists of stratified squamous tissue  
   O. Undulations that create fingerprints  
   P. Site of cholesterol conversion to Vitamin D  
   Q. Site of uric acid release  
   R. Hypodermis  
   S. Dead cells  
   T. Structure that creates the acid mantle  
   U. Layers of keratinized cells  
   V. Releases sebum

2. Color the following structure on the diagram

   - Epithelium - light blue  
   - Muscle - light brown  
   - Capillaries - red  
   - Adipose - yellow
3. You fall and scrap your skin. When you look at your painful scrap it has turned red and a variety of tissue has flaked off, but you are not bleeding. Explain why this has happened using relevant skin structure vocabulary.

4. In the winter a lot of people put a waxy layer of ‘chapstick’ on their lips, Why? Explain your answer by discussing how the structure of the skin differs between our lips and the rest of the face.

5. Nutritionists will tell you that the healthiest way to eat chicken is to remove the skin down to below the hypodermis, why?