

Histology Homework #1

Directions: Answer all components of each question completely. Then, attach this assignment or write in complete sentences into page 20 of your ISN. Review your answers because they could appear on your next quiz!

1. A) The structure *cilia* is found throughout the respiratory tract. What purpose does this serve in your airway? B) Explain which type of epithelial tissue is associated with cilia in the airway. C) Why does this tissue confuse students?
2. A) What is the function of an epithelium that is smooth on its free surface compared to an epithelium with a folded free surface made up of *microvilli*? B) Where would you find a smooth epithelium and one with a free surface made up of microvilli?
3. The epidermis (of your skin) is a keratinized stratified squamous epithelium. A) What does "*keratinized*" mean? B) Why is keratinized squamous epithelium much better suited for protecting the body's external surface than something like simple cuboidal epithelium?
4. Why do infections always pose a serious threat to the body after a patient experiences severe burns or deep abrasions to the integument?