

Module 12

A & P

Assignment #1

Read pages 355 - 365

Write the answers on your own paper, not on this sheet.

1. Define the following terms:
 - a. Lymph tissue
 - b. Lymph nodes
 - c. Lymph
 - d. Edema
 - e. Immunological defense
 - f. Diffuse lymphatic tissue
 - g. Lymph nodules
2. What are the three basic functions of the lymphatic system?
3. What is the difference between lymph and interstitial fluid?
4. How is lymph pumped through the lymph vessels (it doesn't have a heart, what causes it to move)?
5. Once lymph has circulated through the lymphatic system, where is it dumped?
6. What are tonsils? Where are they found in the body? What function do they perform?
7. Where are Peyer's patches? What function do they perform?
8. Does a lymph node have more afferent lymph vessels or efferent lymph vessels? Why?
9. List the three functions of a lymph node.
10. What are the three functions of the spleen?
11. What are the two functions of the thymus gland?

12. Define the following terms:
 - a. Innate immunity
 - b. Acquired immunity
 - c. Complement
 - d. Interferon
 - e. Pyrogens
 - f. Humoral immunity
 - g. Cell-mediated immunity

13. For each item listed below, describe its role in innate immunity:
 - a. Skin
 - b. Sweat glands
 - c. Sebaceous glands
 - d. Mucus
 - e. Gastric juice
 - f. Tears
 - g. Urine
 - h. Symbiotic organisms
 - i. Complement
 - j. Interferon
 - k. Neutrophils and monocytes
 - l. Basophils
 - m. Eosinophils
 - n. Vasodilation
 - o. Pyrogens

14. What does the constant region of an antibody determine?
15. What does the variable region of an antibody determine?
16. List the 5 ways antibodies can fight antigens.
17. What is the function of a plasma B-cell? What is the function of a memory B-cell? Which lives longer?
18. How does your body's immune system know not to attack your body's cells?
19. What is the function of a cytotoxic T-cell? What is the function of a memory T-cell? What is the function of a helper T-cell?
20. What is autoimmunity?
21. Honors: List three autoimmune diseases and the symptoms they cause.