**Review for Exam Three, BSC 182**

Please note that this review does not cover ALL of the material discussed in the lecture notes. *It is meant as a guide only*. Exam questions will come from the lecture material, not this review. Please be familiar with all of the topics we discussed in lecture.

1. What’s the function of the lymphatic system?
2. Compare and contrast lymphatic capillaries to circulatory capillaries
3. Where does interstitial fluid come from?
4. What are lacteals and where are they found?
5. Compare and contrast lymphatic vessels to veins
6. Contrast the two lymphatic ducts: Thoracic and Right Lymphatic
7. Compare and contrast B cells to T cells
8. What aids in the transportation/propulsion of the lymphatic fluid?
9. Review macrophages, dendritic cells, and reticular cells
10. Review diffuse lymphatic tissue
11. Where are germinal centers found?
12. What are the functions of the lymph nodes?
13. What is the function of the spleen?
    1. Compare white pulp to red pulp
14. Review the Thymus
    1. Cortex
    2. Medulla
    3. Thymocytes
15. Tonsils
    1. Locate the four tonsils we mentioned in lecture
    2. What are tonsilar crypts?
16. Where are the Peyers Patches? Function?
17. What is MALT? Function?
18. Review the non-specific defenses (innate)
19. What are the steps for phagocytosis?
20. What are the four cardinal signs of acute inflammation?
21. How are phagocytes mobilized?
22. What is an adaptive defense? (specific defense)
23. Compare humoral immunity to cell mediated immunity
24. Compare antigens and haptens
    1. What does immunogenicity mean?
    2. What does reactivity mean?
25. What is an antigenic determinant?
26. What does MHC mean and what does it do (both varieties)
27. What does an APC do? Which cells can be APCs?
28. How are T cells selected in the thymus?
29. When do we make clones of B cells? Of T cells?
30. Compare Primary immune response to secondary immune response
    1. Which antibodies are produced?
    2. Time frames?
31. What are the functions of memory cells?
32. What is active immunity? Passive immunity?
    1. Naturally acquired?
    2. Artificially acquired?
33. What are the classes of antibodies?
    1. What shapes do they have
    2. Where are they found?
34. What is the “PLAN” of attack?
35. What are the categories of T cells?
36. How is a T cell activated?
37. What are cytokines?
38. Function of interleukin 1?
39. Interleukin 2?
40. What role do the Helper T cells have?
41. How do the cytotoxic T cells function?
    1. How do they cause cell death?
42. Review the terms for organ/tissue transplantation
    1. Autograft
    2. Isograft
    3. Allograft
    4. Xenograft
43. What characterizes Hodgkin’s desease?
44. Non-Hodgkin’s?
45. What is a Lymphoma?
46. Symptoms and cause of Mononucleosis







