

## CHAPTER 42: Immune System

1. What are four characteristics of the specific immune system?

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

d. \_\_\_\_\_

2. List the two main types of defense mechanisms and briefly describe features of each.

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3. Give examples of "barrier" defense.

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4. What is the role of the lymphatic system in immunity?

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5. What is the role of phagocytic leukocytes?

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6. Identify differences between the lymphocytes.

a. B Lymphocytes – \_\_\_\_\_

\_\_\_\_\_

b. T Lymphocytes – \_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_

Question Set 45

7. What is the role of cytokines?

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8. What is the mechanism by which complement proteins aid in defense?

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9. Outline the significant steps that occur during an inflammatory response?

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10. Why do we get fevers?

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11. What is the role of toll receptors? What does it activate?

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12. What are antigens? What are antigenic determinates?

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13. What is the difference between the primary and secondary immune response?

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Name: \_\_\_\_\_

Question Set 45

14. What is the difference between immunization and vaccination?

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15. What is the difference between immunity and resistance? (think bacterial!)

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16. What are the key features of antibody structure?

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17. List and briefly describe four ways that antibodies aid in immunity.

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18. How do B cells become activated?

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19. Once activated, what do B cells do?

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20. What is the role of the cytotoxic T cells and describe their mechanism of action.

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21. What is the role of the major histocompatibility complex (MHC)?

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22. Define active immunity.

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23. Define passive immunity.

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24. How can so many different antibodies form from an organism's genome?

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25. What are allergies and what happens when you have an allergic reaction?

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26. Give examples of autoimmune disorders.

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27. Propose a possible reason why there may be a small percentage of people who have a natural immunity to HIV.

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