Unit 2 - Week 0: Prerequisite

Assignment 0
Due at 0900-11-20 09:00

1. Explain the difference between a disease and an infection.

2. Identify the main components of the immune system and their functions.

3. Discuss the importance of vaccination in disease prevention.

4. Describe the role of the body's first and second lines of defense in fighting infection.

5. Explain the concept of antigen-antibody reaction and its significance in the immune response.

6. Identify the role of T cells and B cells in the adaptive immune response.

7. Discuss the importance of NK cells and their role in the innate immune response.

8. Explain the role of cytokines in coordinating the immune response.

9. Describe the adaptive immune response and its role in acquired immunity.

10. Explain the difference between humoral immunity and cell-mediated immunity.

11. Discuss the role of the spleen, lymph nodes, and tonsils in the immune response.

12. Explain the process of antibody production and its role in immunity.

13. Discuss the role of immune complexes in the development of autoimmune diseases.

14. Identify the main components of the body's second line of defense in fighting infection.

15. Explain the concept of antigen-specificity and its importance in the immune response.

16. Discuss the role of the innate immune response in the initial defense against infection.

17. Explain the concept of immunological memory and its role in future immune responses.

18. Identify the role of the bone marrow, thymus, and spleen in the development of the immune system.

19. Discuss the role of immune cells in the body's ability to fight infections.

20. Explain the importance of the immune system in maintaining homeostasis in the body.