**Teaching unit 07**

1. Explain the phases of the humoral immune response.

2. Explain the differences between the humoral immune response to protein and non-protein antigens.

3. Name the subpopulations of B lymphocytes.

4. Describe the activation of B lymphocytes, the second signal in the activation of B lymphocytes.

5. How and where does the interaction between Th and B lymphocytes take place in response to protein antigens?

6. By what mechanisms do Th lymphocytes stimulate the activation of B lymphocytes?

7. Explain the similarities between the mechanisms of Th lymphocyte-mediated activation of B lymphocytes and macrophages?

8. Explain the change in antibody class.

9. Explain the maturation of antibody affinity.

10. What are the characteristics of the humoral immune response to non-protein antigens?

11. What are the differences between primary and secondary immune response. How do class switching and affinity maturation improve the ability of antibodies to fight pathogens?

12. How is the humoral immune response regulated by antibodies?

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