

Immunology Quiz PDF

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Which cell type is primarily responsible for producing antibodies?

- T Cells
- B Cells
- Macrophages
- Neutrophils

Which of the following are types of vaccines? (Select all that apply)

- Live-attenuated
- Inactivated
- Subunit
- Antibiotic

What role do cytokines play in the immune system? Provide examples.

Discuss the concept of herd immunity and its significance in public health.

Which of the following is a characteristic of innate immunity?

- Memory response
- Specificity to antigens
- Immediate response
- Delayed response

Which class of MHC molecules is found on all nucleated cells?

- Class I
- Class II
- Class III
- Class IV

Which cells are part of the adaptive immune system? (Select all that apply)

- T Cells
- B Cells
- Neutrophils
- Dendritic Cells

Which mechanisms do pathogens use to evade the immune system? (Select all that apply)

- Antigenic variation
- Inhibition of complement activation
- Phagocytosis
- Suppression of immune response

Which cells are involved in antigen presentation? (Select all that apply)

- Macrophages
- Dendritic Cells
- B Cells

Red Blood Cells

What is the primary function of natural killer (NK) cells?

- Produce antibodies
- Present antigens
- Destroy infected or cancerous cells
- Activate T cells

Which cytokine is known for its antiviral properties?

- Interleukin-2
- Interferon
- Tumor Necrosis Factor
- Interleukin-10

Explain the difference between innate and adaptive immunity.

Which of the following is a primary lymphoid organ?

- Spleen
- Lymph Node
- Thymus
- Tonsils

Which of the following are functions of antibodies? (Select all that apply)

- Neutralization of pathogens
- Opsonization
- Antigen presentation
- Activation of complement system

Describe the process of clonal selection and expansion in the adaptive immune response.

How does the body achieve immune tolerance, and why is it important?

Which of the following is NOT a type of hypersensitivity reaction?

- Type I
- Type II
- Type III
- Type V

What type of immunity is provided by vaccines?

- Innate Immunity
- Passive Immunity
- Adaptive Immunity
- Autoimmunity

Which of the following are autoimmune diseases? (Select all that apply)

- Rheumatoid Arthritis
- Lupus
- Asthma
- Type 1 Diabetes

What are the main challenges in developing vaccines for rapidly mutating viruses like influenza?