



Physiology

MID | Past Papers

﴿ وَقُل رَّبِ أَدْخِلْنِي مُدْخَلَ صِدْقِ وَأَخْرِجْنِي مُخْرَجَ صِدْقِ وَٱجْعَل لِي مِن لَدُنكَ سُلْطَانَا نَصِيرًا ﴾ ربنا آتنا من لدنك رحمة وهيئ لنا من أمرنا رشدًا

Lectures 6-7

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LEC 6-7

Q1: A baby is injected with a strong antigen during the third trimester to 6 months after birth what is mostly likely to happen?

- A) Specific clones of T lymphocyte will recognize the antigen and reside in a lymphoid organ
- B) Specific clones of B lymphocyte will recognize the antigen and reside in a lymphofoid organ
- C) Specific clones of both T and B lymphocyte will recognize the antigen and reside in a lymphoid organ
- D) No specific clones will recognize the antigen
- E) Hypersensitivity reaction will develop

Q2: A patient aged 10 years old comes with decreased immunoglobins and he has abnormal acute or delayed sensitivity skin reactions, what is most likely to be affected:

- A) Helper T cells
- B) Cytotoxic T cells
- C) B cells
- D) Plasma cells

Q3: Chronic allograft rejection results primarily from the action of what effector cell type?

- A. Activated macrophages
- B. Helper T lymphocytes
- C. Cytotoxic T lymphocytes
- D. Dendritic cells

Q4: What will occur after presentation of antigen by a macrophage?

- A) Direct generation of antibodies
- B) Activation of cytotoxic T cells
- C) Increase in phagocytosis
- D) Activation of helper T cells

Q5: CD4 is a marker of which of the following

- A. B cells
- B. Cytotoxic T cells
- C. Helper T cells
- D. An activated macrophage
- E. A neutrophil precursor

Q6: Which of the following is true about helper T cells?

- A. They are activated by the presentation of antigen by an infected cell
- B. They require the presence of a competent B-cell system
- C. They destroy bacteria by phagocytosis
- D. They are activated by the presentation of antigen by macrophage or dendritic cells

Q7: What is the function of IL-2 in the immune response

- A) Binds to and presents antigen
- B) Stimulates proliferation of T cells
- C) Kills virus-infected cells
- D) Is required for an anaphylactic response

Q8: Which of the following applies to cytotoxic T cells

- A. They require the presence of a competent B-lymphocyte system
- B. They require the presence of a competent suppressor T-lymphocyte system
- C. They are activated by the presentation of antigen by an infected cell
- D. They destroy bacteria by initiating macrophage phagocytosis

Q9: Presentation of antigen on major histocompatibility complex (MHC)-I by a cell will result in which of the following?

- A. Generation of antibodies
- B. Activation of cytotoxic T cells
- C. Increase in phagocytosis
- D. Release of histamine by mast cells

Q10: Which of the following statements best describes the role of MHC molecules in antigen presentation?

- A. They allow B cells to recognize intact antigens.
- B. They enable T cells to recognize free-floating antigens.
- C. They present antigen fragments to T cell receptors for recognition.
- D. They directly destroy infected cells.

Q11: Which of the following cytokines is primarily involved in the stimulation of cytotoxic T cells?

- A. IL-1
- B. IL-2
- C. IL-4
- D. IL-6

Q12: Failure of immunologic tolerance can lead to which of the following conditions?

- A. Rheumatic fever and Myasthenia gravis
- B. Common cold and influenza
- C. Leukemia and leukopenia
- D. Anaphylaxis and asthma

Q13: Failure to delete self-reactive T cell clones during thymic selection most directly leads to:

- A. Loss of cytokine signaling
- B. Autoimmunity
- C. Immunodeficiency
- D. Hypersensitivity type I

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Corrections from previous versions:

Versions	Slide # and Place of Error	Before Correction	After Correction
V0 → V1			
V1 → V2			Ťĥ.