

## Chapter 6 The Immune System

1. Alternative pathway of complimentary system is
  - (A) involved in nonspecific defense
  - (B) processed by factor b
  - (C) involved in adaptive immunity
  - (D) activated by microorganism or its toxicity
  
2. Which of the following are TRUE regarding opsonization?
  - (A) It promotes the destruction of protein
  - (B) It involves antibodies
  - (C) It involves complement protein
  - (D) It enhances phagocytosis
  
3. Hinge region is found in
  - (A) IgG
  - (B) IgE
  - (C) IgD
  - (D) IgM
  
4. Which of the following are TRUE regarding the mechanisms of generating antibody diversity?
  - (A) V, D, and J gene segments are present in multiple copies (germline diversity)
  - (B) Different sequences at the joint lead to greater antibody diversity (junctional diversity)
  - (C) A single combination of light and heavy chains
  - (D) Somatic hypermutation after antigenic stimulation
  
5. Fc region involved in
  - (A) cell surface receptor binder
  - (B) compliment deactivation
  - (C) determining diffusivity of antibody molecule
  - (D) detection of opsonized particles
  
6. Clearance of antigens by antibodies involve
  - (A) neutralization and agglutination
  - (B) binding to CR2
  - (C) precipitation
  - (D) opsonization
  
7. Which of the following used to activate macrophages and inflammatory responses?
  - (A)  $\text{TNF}\beta$
  - (B) IL-10
  - (C) IL-13
  - (D)  $\text{IFN}\gamma$
  
8. Name the major constituents of cytotoxic T-lymphocyte?
  - (A) Lysozyme
  - (B) Granzyme
  - (C) Lymph
  - (D) Perforin

9. Mark the CORRECT role cytosolic T-cells?  
(A) Help in B-cell activation  
(B) Coagulate formation  
(C) Proliferate T-cell  
(D) Kill the target cell
10. The competitive immunoassay can be used  
(A) detect antibody associated with allergies (IgE)  
(B) to detect very small amounts of antigen  
(C) DAU testing  
(D) commonly to detect trace amounts of drugs.
11. Which of the following are immunodiffusion test?  
(A) Double-diffusion  
(B) Gel diffusion  
(C) ELISA  
(D) Ouchterloney technique

**Answer Key**

1. (A), (B), (D)  
2. (B), (C), (D)  
3. (A), (C)  
4. (A), (B), (D)  
5. (A), (C), (D)  
6. (A), (C), (D)  
7. (A), (D)  
8. (B), (D)  
9. (B), (D)  
10. (A), (B), (C)  
11. (A), (B), (D)