

Chapter 8
Microbial Diseases and Host Pathogen Interaction

1. Which of the following surface associated microorganisms are populated in the upper respiratory tract (nasal cavity and nasopharynx)?
(A) *Streptococcus*
(B) *Escherichia*
(C) *Staphylococcus*
(D) *Neisseria*
2. Following are the sets of autoimmune disease with the corresponding antigens, which of these are CORRECT.
(A) Myasthenia gravis – Platelets
(B) Rheumatoid arthritis – Collagen
(C) Systemic lupus erythematosus – La nucleoprotein
(D) Hashimoto thyroiditis – Thyroglobulin
3. Which of the following diseases are caused by microbial protein toxin?
(A) Botulism
(B) Diphtheria
(C) Shigella dysentery
(D) Tuberculosis
4. Which of the following properties of diphtheria toxin are TRUE?
(A) The nicked toxin is biologically and immunologically identical to unnicked toxin.
(B) On reduction with GSH, chains A and B are separable
(C) Diphtheria toxin inhibits protein synthesis by ADP-ribosylating EF2
(D) Chain A alone is toxic to animals and whole cells
5. Which one of the following are lymphocyte?
(A) B-cell
(B) T-cell
(C) N κ -cell
(D) Mast-cell
6. Which of the following diseases are caused by the Coxsackie virus?
(A) Intestinal infection
(B) Meningitis
(C) Gingivitis
(D) Myocarditis
7. For which of the following diseases does the causative agent strictly obey Koch's postulates?
(A) Tuberculosis
(B) Cholera
(C) Bovine spongiform encephalopathy
(D) Bird flu
8. The alternate pathway of complement-mediated cell lysis is triggered by
(A) bacterial polysaccharide
(B) Properdin

- (C) antibody to the polysaccharide
(D) factor B
9. Which of the statements about *Corynebacterium diphtheriae* biology are CORRECT?
(A) All strains of *C. diphtheriae* are producers of diphtheria toxin
(B) Diphtheria toxin production can be minimized by high concentration of iron in the medium
(C) Diphtheria toxin inhibits protein synthesis
(D) Diphtheria toxin is an A-B toxin secreted as a polypeptide of 62 kDa
10. Which of the following infectious agents cross the blood brain barrier?
(A) *Streptococcus pneumoniae*
(B) *Coxsackie virus*
(C) *Rotavirus*
(D) *Streptococcus pyogenes*

Answer

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