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Chapter: Chapter 02 - Quiz

Multiple Choice

1. A patient who has seasonal allergic rhinitis is having a flare up and is complaining of sneezing and a watery, runny nose (rhinorrhea). The patient is prescribed an antihistamine. The expected effect of this medication is to:

- A) promote blood flow to the area to remove inflammatory mediators.
- B) promote smooth muscle contraction thereby improving drainage.
- C) decrease vascular permeability to decrease rhinorrhea.
- D) increase vascular permeability to allow for improved drainage.

Ans: C

Complexity: Easy

Ahead: Innate Immunity

Subject: Chapter 2

Title: Immunity

2. The chronic inflammatory response can occur because:

- A) organisms can live in granulomas.
- B) vascular permeability and edema are prolonged.
- C) neutrophil and histamine effects are prolonged.
- D) interferons are ineffective and allow replication.

Ans: A

Complexity: Easy

Ahead: Innate Immunity

Subject: Chapter 2

Title: Immunity

3. Organisms that multiply by invading host cells and can reside in neurons are:

- A) bacteria.
- B) fungi.
- C) parasites.

D) viruses.

Ans: D

Complexity: Easy

Ahead: Innate Immunity

Subject: Chapter 2

Title: Immunity

4. When the immunoglobulin crosses the placenta, the fetus receives:

A) acquired immunity.

B) passive immunity.

C) cell-mediated immunity.

D) innate immunity.

Ans: B

Complexity: Easy

Ahead: Adaptive Immunity

Subject: Chapter 2

Title: Immunity

5. A 20-year-old man just took a home human immunodeficiency virus (HIV) antibody test. He states that it was positive. What is the next step?

A) A p24 antigen test will be done.

B) An ELISA or Western blot will be done.

C) A CD4 count will be obtained to confirm.

D) A viral RNA will be done.

Ans: A

Complexity: Easy

Ahead: Altered Immune Response

Subject: Chapter 2

Title: Immunity

6. A woman just returned from hiking and she is concerned she has Lyme disease. A positive result in which of the following antibody test results would indicate she has an acute infection?

A) Immunoglobulin E

B) Immunoglobulin A

C) Immunoglobulin G

D) Immunoglobulin M

Ans: D

Complexity: Easy

Ahead: Adaptive Immunity

Subject: Chapter 2

Title: Immunity

7. A mother brings in her child for a measles, mumps, and rubella vaccine and wants to know why more than one shot has to be given for this vaccine to be effective. It is explained to the mother that the vaccine is:

A) made of a carbohydrate, which is ineffective in one dose.

B) live, and often more than one dose is necessary for effectiveness.

- C) a toxoid, and the immune system destroys the first therefore more doses are necessary.
D) inactive, and therefore two doses are required for activation.

Ans: B

Complexity: Easy

Ahead: Adaptive Immunity

Subject: Chapter 2

Title: Immunity

8. Patients will develop active immunity when they:

- A) Have natural exposure to an antigen or receive an immunization.
B) receive preformed antibodies.
C) receive immunoglobulins.
D) have T cells that become immune B cells.

Ans: A

Complexity: Easy

Ahead: Adaptive Immunity

Subject: Chapter 2

Title: Immunity

9. A mechanism involved in the development of autoimmune disorders includes:

- A) antibody and complement deposition in tissues.
B) delayed processing of antigens with subsequent antibody production.
C) targeting of the major histocompatibility complex.
D) peripheral and central tolerance failure.

Ans: D

Complexity: Easy

Ahead: Altered Immune Response

Subject: Chapter 2

Title: Immunity

10. The arthritis in systemic lupus erythematosus is generally:

- A) asymmetrical and worsens with activity.
B) migratory and symmetrical.
C) worse with sun exposure.
D) monoarticular and improves with rest.

Ans: B

Complexity: Easy

Ahead: Altered Immune Response

Subject: Chapter 2

Title: Immunity

11. In addition to a positive antinuclear antibody test, which of the following diagnostic test findings is consistent with a diagnosis of systemic lupus erythematosus?

- A) Positive anti-double stranded DNA
B) Negative anti-Smith antibodies
C) High C3 and C4 complement levels
D) Low erythrocyte sedimentation rate

Ans: A
Complexity: Easy
Ahead: Altered Immune Response
Subject: Chapter 2
Title: Immunity

12. A 20-year-old woman was just diagnosed with systemic lupus erythematosus. What are strategies she needs to learn to prevent exacerbations?

- A) Wearing sunscreen and minimizing sun exposure
- B) Avoiding use of nonsteroidal, anti-inflammatory medications
- C) Avoiding exercise
- D) Limiting dairy intake

Ans: A
Complexity: Easy
Ahead: Altered Immune Response
Subject: Chapter 2
Title: Immunity

13. Which of the following is an immunoglobulin E (IgE)-mediated hypersensitivity reaction?

- A) A transfusion reaction resulting from an infusion of incompatible blood into a person who has preexisting antibodies directed against the transfused cells
- B) Organ or tissue damage resulting from deposition of antigen–antibody complexes in the organs or tissues of an affected person
- C) An area of swelling and tenderness in the skin after an intradermal injection of protein material derived from the tubercle bacillus
- D) A penicillin reaction characterized by fall in blood pressure and respiratory distress after an injection of penicillin in a person who has become sensitized to penicillin as a result of a previous penicillin injection

Ans: D
Complexity: Moderate
Ahead: Altered Immune Response
Subject: Chapter 2
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14. It is most important to take special precautions with a _____ because of an increased susceptibility to infection as a result of medical therapy.

- A) 38-year-old woman receiving immunotherapy for allergies
- B) 38-year-old man with diabetes mellitus taking insulin
- C) 58-year-old woman with rheumatoid arthritis taking corticosteroids daily
- D) 58-year-old man 5 years after a myocardial infarction taking aspirin daily

Ans: C
Complexity: Moderate
Ahead: Altered Immune Response
Subject: Chapter 2
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15. The major disadvantage of passive immunization is that it:

- A) is ineffective.

- B) is expensive.
- C) interferes with active immunization.
- D) induces short-term protection.

Ans: D

Complexity: Easy

Ahead: Adaptive Immunity

Subject: Chapter 2

Title: Immunity

16. Which of the following is *true* about inflammation?

- A) It is a specific response to an insult.
- B) It requires previous exposure.
- C) It is the second level of response to injurious agents.
- D) It only lasts for short periods of time.
- E) It exists in almost all chronic illness in the body.

Ans: E

Complexity: Easy

Ahead: Innate Immunity

Subject: Chapter 2

Title: Immunity

17. In which of the following scenarios should there be a suspicion for primary immunodeficiency?

- A) A 1-year-old who is hospitalized for pneumonia
- B) A 6-year-old who has two colds in a year
- C) A 3-month-old with a respiratory infection that is persistent
- D) A 3-year-old who has had two middle ear infections in one year.

Ans: C

Complexity: Easy

Ahead: Altered Immune Response

Subject: Chapter 2

Title: Immunity

18. How does the human immunodeficiency virus enter the CD⁴ membrane?

- A) The virus converts its genetic material from RNA to DNA.
- B) The virus GP120 fuses with the cell CXCR4.
- C) The virus releases integrase onto the cell membrane.
- D) The virus releases buds onto the host cell.

Ans: B

Complexity: Easy

Ahead: Altered Immune Response

Subject: Chapter 2

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19 A 28-year-old man is suspected of having acute retroviral syndrome. He is trying to determine when he got infected. He was most likely infected:

- A) within the past month.
- B) anywhere between 3 and 6 months ago.

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Chapter 2 Assessment Quiz

C) more than 12 months ago.
D) A timeframe cannot be determined.

Ans: A

Complexity: Easy

Ahead: Altered Immune Response

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