Chapter 37 Standardized Test Prep

TEST TIP To help you learn the stages of the immune response, make a note card describing each stage, mix up the cards, and practice reordering the stages.

Science Concepts

1. Which of the following is a nonspecific defense?
- **A** antibody response
- **B** the B cell response
- **C** the T cell response
- **D** the inflammation response

2. Which of the following statements about plasma cells is true?
- **F** They engulf pathogens.
- **G** They produce antibodies.
- **H** They result from cytotoxic T cells.
- **J** They are directly stimulated by macrophages.

3. Type 1 diabetes is an example of
- **A** an allergic reaction.
- **B** a bacterial infection.
- **C** an autoimmune disease.
- **D** an infection that is related to AIDS.

4. HIV disables the immune system by
- **F** destroying helper T cells.
- **G** activating production of B cells.
- **H** blocking the action of macrophages.
- **J** destroying the production of antibodies.

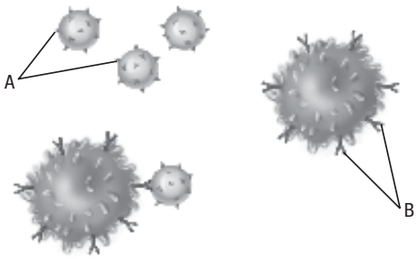
5. Why are flu vaccines given each year?
- **A** Influenza viruses mutate often.
- **B** Influenza is caused by bacteria.
- **C** Very few memory cells are produced.
- **D** Macrophages cannot engulf flu viruses.

6. One common symptom of an allergic reaction to airborne antigens is
- **F** itchy eyes.
- **G** opening nasal passages.
- **H** reduced mucus production.
- **J** a weakened immune response.

7. Which cells produce antibodies and release them into the blood?
- **A** plasma cells
- **B** helper T cells
- **C** macrophages
- **D** cytotoxic T cells

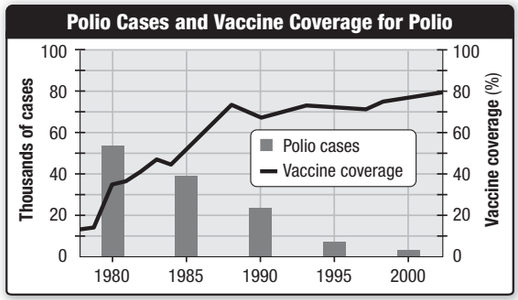
Using Science Graphics

Use the diagram to answer the following question.



8. Why can structures A and B interact with each other?
- **F** They are "nonself."
- **G** They have matching shapes.
- **H** They are viral proteins.
- **J** They are produced by the same cells.

Use the diagram to answer the following question.



Source: World Health Organization.

9. What is the relationship between the number of polio cases and the percentage of vaccine coverage?
- **A** They have no relationship.
- **B** They have a positive relationship.
- **C** They have a negative relationship.
- **D** They have an exponential relationship.

Writing Skills

10. Short Response Under what circumstances can a child be born with HIV?

State Resources



For specific resources for your state, visit go.hrw.com and type in the keyword **HSHSTR**.

Test Practice with Guided Reading Development

Answers

1. D	**2.** G	**3.** C
4. F	**5.** A	**6.** F
7. A	**8.** G	**9.** C

10. when the mother is infected with HIV; even if the father is HIV negative, the baby can be born with HIV

TEST DOCTOR

Question 1 **B, C,** and **D** are incorrect, because each is a phase of the immune response system. **A** is correct. Inflammation is a nonspecific response.

Question 5 **A** is correct, because each year's vaccine targets a particular strain. **B** is incorrect, because a virus causes flu. **C** is incorrect because memory cells are produced, but the virus mutates to produce a new strain that is not recognized by the memory cells. **D** is incorrect, because macrophages can engulf viruses.

Question 8 The diagram shows immune cells with specific receptors. Students should focus on the "matching shapes" in the drawing, and **G** is correct. **F** is incorrect, because structure A is a pathogen and structure B is an immune cell. They are not both "nonself." **H** is incorrect, because they are not viral proteins. **J** is incorrect, because the binding sites are not produced by the same cells.