

**SECTION 47-3 REVIEW**

# HIV AND AIDS

**VOCABULARY REVIEW** Explain the relationship between the terms in each of the following pairs of terms.

1. helper T cells, AIDS \_\_\_\_\_  
\_\_\_\_\_
2. AIDS, HIV \_\_\_\_\_  
\_\_\_\_\_
3. opportunistic infection, AIDS \_\_\_\_\_  
\_\_\_\_\_

**MULTIPLE CHOICE** Write the correct letter in the blank.

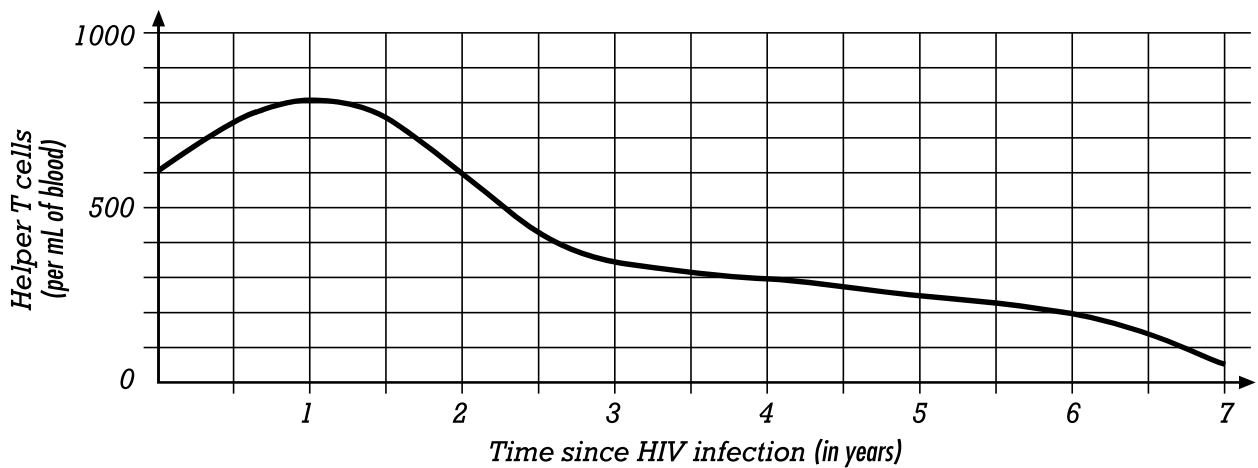
- \_\_\_\_\_ 1. A diagnosis of AIDS is made when a person has
  - a. an HIV infection.
  - b. few B cells.
  - c. few T cells.
  - d. All of the above
- \_\_\_\_\_ 2. Which of the following is a route of HIV transmission?
  - a. breathing air in a room with a person with AIDS
  - b. touching a person infected with HIV
  - c. sharing of hypodermic needles
  - d. insect bites
- \_\_\_\_\_ 3. The most common means of HIV transmission is
  - a. sexual intercourse with a person infected with HIV.
  - b. blood transfusion.
  - c. shaking hands with a person with AIDS.
  - d. performing experiments with HIV.
- \_\_\_\_\_ 4. Vaccines against HIV are difficult to design because HIV
  - a. is a retrovirus.
  - b. is difficult to isolate.
  - c. changes rapidly.
  - d. is not detectable.
- \_\_\_\_\_ 5. HIV begins to reproduce
  - a. when AIDS occurs.
  - b. shortly after infection.
  - c. months after infection.
  - d. All of the above

**SHORT ANSWER** Answer the questions in the space provided.

1. Is HIV the primary cause of death in people with AIDS? Explain your answer. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
2. Can a person be infected with HIV but not exhibit AIDS? Explain your answer. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
3. List two ways that HIV can be transmitted. \_\_\_\_\_  
 \_\_\_\_\_
4. **Critical Thinking** Could people become exposed to HIV during an organ transplant or skin graft operation? Explain your answer. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**STRUCTURES AND FUNCTIONS** Use the graph below to answer the following questions.

The graph shows a decrease in the number of helper T cells in a person with HIV over time.



1. In this person, how many years after infection did the onset of AIDS occur? \_\_\_\_\_  
 \_\_\_\_\_
2. The person tested positive for HIV six months after infection but tested negative for HIV six years later. Explain how this might happen. \_\_\_\_\_  
 \_\_\_\_\_