

Study Guide

CHAPTER 37

Section 1: Infectious Diseases

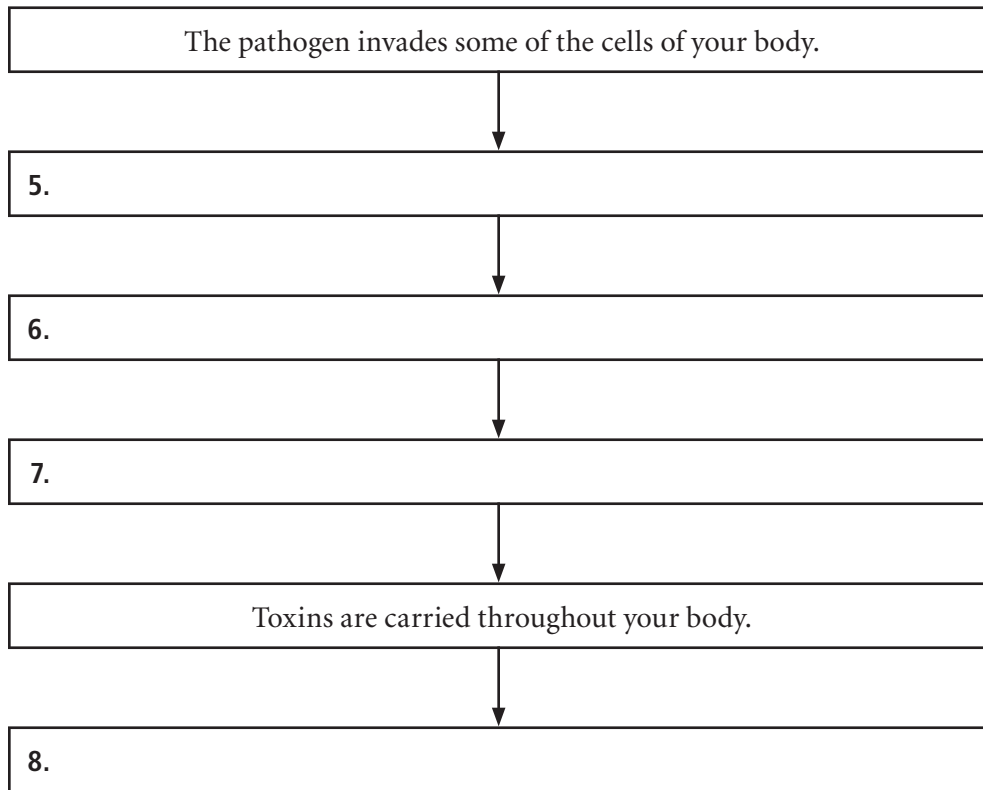
In your textbook, read about Koch’s postulates.

Match the description of Koch’s postulates in Column A with the step number in Column B.

Column A	Column B
_____ 1. The suspected pathogen that has been grown in a pure culture must cause a disease in a healthy host.	A. step 1
_____ 2. The suspected pathogen must be grown in a pure culture with no other microorganisms present.	B. step 2
_____ 3. The suspected pathogen must be identified from the diseased host.	C. step 3
_____ 4. The suspected pathogen must be isolated from the new host, grown again in pure culture, and have the same characteristics as the original suspected pathogen.	D. step 4

In your textbook, read about the symptoms of disease.

Complete the graphic organizer about the steps of viral infection.



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Section 2: The Immune System

In your textbook, read about specific immunity.

Complete the table by filling in the missing information.

Organ	Location	Function
Lymph nodes	along the course of the lymphatic vessels	1.
Tonsils	2.	3.
4.	5.	stores blood, destroys damaged cells, responds to foreign substances in the blood
Thymus	6.	7.

In your textbook, read about passive and active immunity.

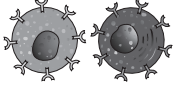
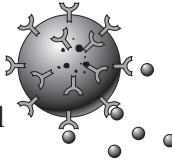

Complete the table by checking the correct column(s) for each description.

Description	Passive Immunity	Active Immunity
8. Occurs when one organism receives antibodies from another organism		
9. Occurs as a result of having a disease		
10. Occurs after the body has been exposed to a pathogen		
11. Occurs when antibodies are injected into the body		
12. Occurs when a mother passes antibodies to a fetus through the placenta		

Study Guide, Section 2: The Immune System continued

In your textbook, read about B cell response, T cell response, and passive and active immunity.

Complete the table by filling in the missing information.

Type of Blood Cell or Structure	Function
B cells  Memory B cell	13.
T cells  Helper T cell Cytotoxic T cell Memory T cell	14.
Antibodies 	15.

In your textbook, read about immune system failure.

Use each of the terms below only once to complete the passage.

blood products decreases RNA secondary infection sexual intercourse

HIV is a(n) (16) _____ virus that infects helper T cells. Eventually, the number of helper T cells (17) _____, and the person becomes susceptible to disease. The virus can be passed to another person through (18) _____ and (19) _____. The infected person usually dies from a(n) (20) _____.

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Section 3: Noninfectious Disorders

In your textbook, read about cancer.

Imagine you are a fund-raiser campaigning to raise awareness of and funds for cancer research. In the space below, design a poster raising awareness about the need for cancer research. On your poster, include a brief definition of cancer, why cancer is so destructive to the body, where in the human body cancer can develop, and factors that contribute to cancer.

In your textbook, read about autoimmunity.

Complete the table by filling in the missing information.

Autoimmune Disease	Symptoms	Cause
1.	knobs or swelling of the joints	2.
Rheumatic fever	3.	4.
Lupus	5.	6.