

Physiology State Standards -- Biology Review Packet

- Use complete sentence answers for all questions assigned.
- For multiple choice questions **copy down the question and the complete answer** (not just the letter).
- For each section write:
 - The Chapter
 - The Page Number
 - The Question Number
- Begin answers to questions on a new line each time starting at the left margin (at least 3 cm from the edge of the paper). You may use the front and back of your paper.

FAILURE TO FOLLOW THE ABOVE GUIDELINES WILL RESULT IN LOSS OF POINTS.

Physiology Standard 9:

As a result of the coordinated structures and functions of organ systems, the internal environment of the human body remains relatively stable (homeostatic) despite changes in the outside environment.

9a. Students know how the complementary activity of major body systems provides cells with oxygen and nutrients and removes toxic waste products such as carbon dioxide.

- Chapter 32** Read p 827
On p 827 Answer Questions # 3, 4, 5
- Chapter 33** Read p 858-861
On p 864 Answer Question # 1
On p 867 Answer Questions # 8, 9, 10, 17, 21
On p 869 Answer Question # 7

Answer the following questions:

SS 9a. What 3 systems deliver oxygen and nutrients to your cells?

What 3 systems remove carbon dioxide and wastes from your cells?

9b. Students know how the nervous system mediates communication between different parts of the body and the body's interactions with the environment.

9c. Students know how feedback loops in the nervous and endocrine systems regulate conditions in the body.

9d. Students know the functions of the nervous system and the role of neurons in transmitting electrochemical impulses.

- Chapter 35** Read pp 895 - 904
On p 896 Answer Questions # 2, 3
On p 900 Answer Questions # 1, 2, 3, 4
On p 905 Answer Questions # 1, 2, 4, 5
On p 917 Answer Questions # 1 through 8, 12, 13, 14, 18
On p 919 Answer Questions # 1 through 7
- Chapter 37** Read p 948
On p 950 Answer Question # 4
Read p 960
On p 963 Answer Question # 4
On p 967 Answer Questions # 5, 15
- Chapter 39** Read pp 997, 100 - 1002
On p 1002 Answer Questions # 1, 2, 5
Read pp 1003 - 1006
On p 1008 Answer Questions # 2, 3, 5
On p 1027 Answer Questions # 1 through 5, 11 through 15

Answer the following questions:

SS 9b. How does the nervous system mediate communication between the different parts of the body in reaction to the environment?

How does the nervous system regulate the circulatory system?

How does the nervous system regulate the respiratory system?

How does the nervous system regulate the endocrine system?

SS 9c. How do feedback loops in the nervous system regulate conditions in the body?

How do feedback loops in the endocrine system regulate conditions in the body?

SS 9d. What is the function of the nervous system?

What is the role of neurons in transmitting electrochemical impulses?

9e. Students know the roles of sensory neurons, interneurons, and motor neurons in sensation, thought, and response.

Physiology Standard 10:

Organisms have a variety of mechanisms to combat disease. As a basis for understanding the human immune response:

10a. Students know the role of the skin in providing nonspecific defenses against infection.

Chapter 36 Read p 929

On p 931 Answer Question # 5

Read p 933

On p 936 Answer Questions # 1, 4, 6

Answer the following questions:

SS 9e. What is the role of neurons in response?

What is the role of the skin in sensation?

SS 10a. What is the role of skin in defense against infections?

10c. Students know how vaccination protects an individual from infectious diseases.

10d. Students know there are important differences between bacteria and viruses with respect to their requirements for growth and replication, the body's primary defenses against bacterial and viral infections, and effective treatments of these infections.

Chapter 19 Read pp 473 - 475

On p 477 Answer Questions # 2, 5, 6

Read pp 478 - 483

On p 483 Answer Questions # 2, 3, 4

Read pp 485 - 490

On p 490 Answer Question # 5

On p 493 Answer Questions # 10, 13, 24, 25

Answer the following questions:

SS 10d. What does a virus require for replication?

What does a bacteria require for growth and replication?

SS 10c. What is a vaccination?

10a. Students know the role of the skin in providing nonspecific defenses against infection.

10b. Students know the role of antibodies in the body's response to infection.

10e. Students know why an individual with a compromised immune system (for example, a person with AIDS) may be unable to fight off and survive infections by microorganisms that are usually benign.

Chapter 40 Read pp 1031 – 1047
On p 1042 Answer Questions # 1 through 5
On p 1047 Answer Questions # 1 through 4
On p 1057 Answer Questions # 1 through 10, 16, 18, 19, 20, 21, 22, 24
On p 1059 Answer Questions # 1 through 10

Answer the following questions:

SS 10a. What is the body's most important nonspecific defense?

SS 10b. What is the role of antibodies in response to infection?

SS 10c. How does vaccination protect from infectious diseases?

SS 10e. Why is a person with AIDs unable to fight off and survive infections by microorganisms that usually do not harm others?

Go to: **biolady.net** <http://www.biolady.net/>
 CP Biology page http://www.biolady.net/biology/cp_bio/cp_bio.htm
 Click on “Released Test Questions”

Copy and answer the last fourteen questions # 62 through 75 on pp 22 – 24 of the PDF document at
<http://www.cde.ca.gov/ta/tg/sr/documents/rtqbio.pdf>