

The Body's Defense 21.2

Date _____

Last Name _____, First _____ per _____

1. 1st Line of defense

a. Name 3 organs that provide the body's 1st line of defense against pathogens.

- i. _____
- ii. _____
- iii. _____

2. Skin Provides a Barrier

a. How does skin protect the body from pathogens?

- i. _____
- ii. _____
- iii. _____

3. Breathing Passages are Protected

a. How does the respiratory system protect the body against pathogens?

- i. _____
- ii. _____

4. Chemicals in the Mouth and Stomach

a. What can happen to pathogens that get inside your stomach?

- i. _____

5. 2nd Line of Defense- Inflammationa. Name three 2nd line of defense responses to pathogens.

- i. _____
- ii. _____
- iii. _____

6. Inflammation

a. Explain what happens during an inflammatory response. _____

7. White Blood Cells

a. Why are some white blood cells considered to be a general defense against pathogens? _____

8. Fever

a. How can fever help kill pathogens? _____

9. Third Line of Defense- The Immune System

a. What can cells of the immune system distinguish between? _____

b. Name the type of blood cells that target specific pathogens _____

i. What are the 2 kinds of lymphocytes?

1. _____
2. _____

10. Antigens

- a. What are antigens? _____
- b. Where are antigens found? _____

11. T-Cells

- a. How do T – cells respond to foreign cells?
 - i. _____
 - ii. _____

12. B-Cells

- a. What do B-cells produce that kill pathogens? _____
- b. How do antibody molecules connect to antigen molecules? _____
- c. What happens when they do? _____
- d. How many antibody molecules can B-cells produce in one second? _____

13. Aids

- a. What causes AIDS and what are the symptoms? ? _____

- b. Is there a cure for aids? _____

14. Explain 4 ways in which AIDS can spread.

- a. _____
- b. _____
- c. _____
- d. _____