Science 8

Review: The Immune System

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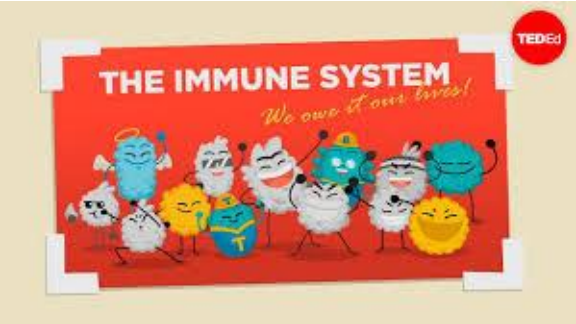

_____ An organism or substance that can cause a disease	A. immune system
_____ A type of white blood cell that recognizes antigens present in the body and produces specific antibodies to fight them.	B. pathogens
_____ A special version of an antigen that provides immunity against a disease	C. infectious diseases
_____ Specific particles created by the immune system to destroy specific disease-causing invaders	D. innate immune response
_____ A thick slippery substance that lines various structures and organs in the body such as the nose, lungs, and stomach	E. acquired immune response
_____ A quick, general immune response that all living things are born with	F. inflammation
_____ Tiny non-living particles capable of reproducing only when they are inside a host cell	G. B Cells
_____ Long-lasting disease protection that is acquired through the production of antibodies in response to an invading pathogen	H. antibodies
_____ Blood cells that fight infection and help prevent the growth of cancer	I. active immunity
_____ The body system that defends the body against infection and disease-causing substances	J. Helper T Cells
_____ Single-celled micro-organisms, some of which can cause disease	K. Killer T Cells
_____ A disease that can be spread by contact with infected people, animals, water or food	L. vaccines
_____ A type of white blood cells which stores some antibodies on B Cells and reactivated if the antigen of pathogen reappears	M. mucous
_____ Specialized white blood cells that fight disease by activating B cells	N. virus
_____ A highly specific attack on a pathogen or antigen by the creation of antibodies to fight it	O. passive immunity
_____ Specialized white blood cells that fight disease by attacking antigens directly	P. booster
_____ An additional dose of a vaccine needed periodically to boost the immune system	Q. Memory B Cells
_____ Swelling and redness at the site of an infection	R. white blood cells
_____ A type of immunity resulting from the introduction of antibodies from another person or animal	S. bacteria

1. What are the four methods of transmitting diseases?
   i.

   ii.

   iii.

   iv.

2. For each of the descriptions below, describe the <u>type of transmission</u> method that could have led to contracting an infection disease.
   a) You are at a barbeque party and become ill from eating undercooked meat.

   b) While on a hiking trip, your friend is bitten by a small animal. The next day he becomes ill.

   c) At a movie, the person behind you seems to be sneezing every five minutes. A couple of days later you develop a cold.

   d) At the end of a soccer game, you shake hands with the other team. A few days later you become ill.

3. How is the role of sweat in the immune system?

4. Describe the process of inflammation.

5. Explain the difference between an innate response and an acquired response.

6. What is an antibody?

7. What is an antigen?

8. Summarize the function of a B cell.

9. Compare a helper T cell with a killer T cell.

10. What is active immunity?

11. Which of the following statements describe activities that **would help** to take care of your immune system? <u>For activities that are **not helpful**, change the statement to make it a helpful activity</u>:
    i. Eat fast foods high in sugar.

    ii. Wash your hands only once in a while.

    iii. Keep your home tidy and neat.

    iv. Avoid smoking.

    v. Prioritize enough rest and exercise.

    vi. Keep your vaccinations up to date.

    vii. Share drinks with a contaminated person.