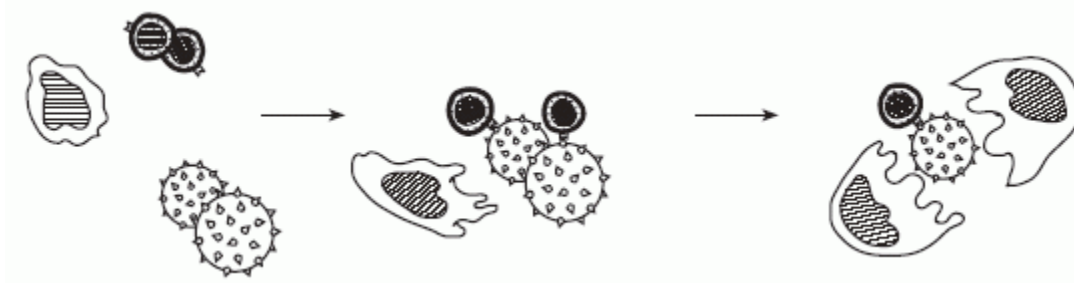


Immune System: Practice Questions #1

1. An individual who has had chicken pox rarely gets the disease again. This situation is an example of
 - A. biological control
 - B. negative feedback
 - C. active immunity
 - D. passive immunity
2. One similarity between cell receptors and antibodies is that both
 - A. are produced by nerve cells
 - B. are highly specific in their actions
 - C. slow the rates of chemical reactions
 - D. are involved in digestion
3. If a human system fails to function properly, what is the most likely result?
 - A. a stable rate of metabolism
 - B. a disturbance in homeostasis
 - C. a change in the method of cellular respiration
 - D. a change in the function of DNA

4. The diagram below represents what can happen when homeostasis in an organism is threatened.



Which statement provides a possible explanation for these events?

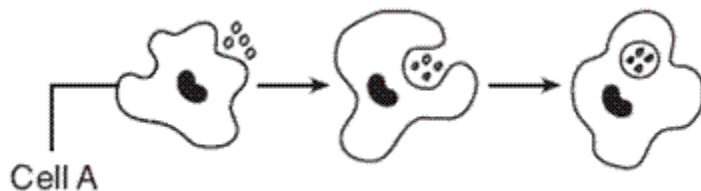
- A. Antibiotics break down harmful substances by the process of digestion.
- B. Some specialized cells mark and other cells engulf microbes during immune reactions.
- C. Embryonic development of essential organs occurs during pregnancy.
- D. Cloning removes abnormal cells produced during differentiation.

5. Which statement does *not* describe an example of a feedback mechanism that maintains homeostasis?
- A. The guard cells close the openings in leaves, preventing excess water loss from a plant.
 - B. White blood cells increase the production of antigens during an allergic reaction.
 - C. Increased physical activity increases heart rate in humans.
 - D. The pancreas releases insulin, helping humans to keep blood sugar levels stable.
6. Antibody molecules and receptor molecules are similar in that they both
- A. control transport through the cell membrane
 - B. have a specific shape related to their specific function
 - C. remove wastes from the body
 - D. speed up chemical reactions in cells
7. A function of white blood cells is to
- A. transport oxygen to body cells
 - B. produce hormones that regulate cell communication
 - C. carry glucose to body cells
 - D. protect the body against pathogens
8. Which activity would stimulate the human immune system to provide protection against an invasion by a microbe?
- A. receiving antibiotic injections after surgery
 - B. choosing a well-balanced diet and following it throughout life
 - C. being vaccinated against chicken pox
 - D. receiving hormones contained in mother's milk while nursing
9. Certain microbes, foreign tissues, and some cancerous cells can cause immune responses in the human body because all three contain
- A. antigens
 - B. enzymes
 - C. fats
 - D. cytoplasm

10. Which statement best describes what will most likely happen when an individual receives a vaccination containing a weakened pathogen?
- The ability to fight disease will increase due to antibodies received from the pathogen.
 - The ability to fight disease caused by the pathogen will increase due to antibody production.
 - The ability to produce antibodies will decrease after the vaccination.
 - The ability to resist most types of diseases will increase.
11. Vaccinations help prepare the body to fight invasions of a specific pathogen by
- inhibiting antigen production
 - stimulating antibody production
 - inhibiting white blood cell production
 - stimulating red blood cell production
12. Worms that had been invaded by bacteria were eaten by a species of bird. Many of these birds died as a result. The most likely explanation for this is that the
- bacteria interfered with normal life functions of the birds
 - disease that killed the birds was inherited
 - gene alterations in the bacterial cells killed the birds
 - birds produced antigens in response to the bacteria

13.

The diagram below represents an event that occurs in the blood.



Which statement best describes this event?

- Cell A is a white blood cell releasing antigens to destroy bacteria.
- Cell A is a cancer cell produced by the immune system and it is helping to prevent disease.
- Cell A is a white blood cell engulfing disease causing organisms.
- Cell A is protecting bacteria so they can reproduce without being destroyed by predators.

14. Which condition would most likely result in a human body being unable to defend itself against pathogens and cancerous cells?
- A. a genetic tendency toward a disorder such as diabetes
 - B. a parasitic infestation of ringworm on the body
 - C. the production of antibodies in response to an infection in the body
 - D. the presence in the body of the virus that causes AIDS
15. Scientific studies have indicated that there is a higher percentage of allergies in babies fed formula containing cow's milk than in breast-fed babies. Which statement represents a valid inference made from these studies?
- A. Milk from cows causes allergic reactions in all infants.
 - B. Breast feeding prevents all allergies from occurring.
 - C. There is no relationship between drinking cow's milk and having allergies.
 - D. Breast milk most likely contains fewer substances that trigger allergies.

Answer Key: Practice Questions #1 Immune

1. C
2. B
3. B
4. B
5. B
6. B
7. D
8. C
9. A
10. B
11. B
12. A
13. C
14. D
15. D