

Human Systems and Homeostasis

Chapter Test B**Answer Key****Multiple Choice**

1. c
2. a
3. d
4. d
5. d
6. b
7. c
8. b
9. a
10. a
11. b
12. c
13. d
14. d
15. c
21. The ship will be driven off course and damaged by the storm at first. The crew would have to make adjustments to keep the ship on course and repair it. A virus can multiply so quickly that the body cannot maintain homeostasis at first, but then the control systems will trigger an immune response, which will kill the virus.
22. the brain
23. the captain
24. Possible answers: the course toward its destination, the depth of the water in which it can sail, the angle of the turn it can make safely
25. a negative feedback loop

Short Answer

16. Acid is released.
17. The upper loop is a negative feedback loop. The pH is the set point. Food entering triggers the release of gastrin, which leads to the release of more acid, which leads to a lower pH. Then the loop restores homeostasis because the lower pH inhibits the release of gastrin and acid. As a result, the pH level rises again.
18. the lower pH of the stomach
19. The lower loop shows a positive feedback loop, because the release of pepsin leads to the release of more pepsin, moving conditions away from a set point.
20. A higher pH would stop the production of pepsin. That would occur after the gastrin was inhibited. If no more food entered the system, the gastrin release would stop and the pH would stay at a higher level.

Human Systems And Homeostasis Exam

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Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy, 2003

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