

How  
5/10/20  
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Shenlander  
Berita  
5/10/20

Answer Key: Textbook page references are provided as a guide for answering these questions. A complete answer key was provided for your instructor.

**OBJECTIVES**

1. Describe the structure and functions of the organs of the respiratory system, and trace the movement of air from the nostrils to the alveoli.
2. Describe why lungs collapse or expand and the role of pulmonary surfactants.
3. Discuss the three steps in respiration, including:
  - Describe the relationship of Boyle's law to ventilation.
  - Explain how respiratory muscles affect thoracic volume.
  - List three conditions that make the alveoli well suited for the exchange of oxygen and carbon dioxide.
4. List lung volumes and capacities.
5. Discuss the voluntary and involuntary control of breathing, including:
  - Explain the neural and chemical control of respiration.
  - Describe common variations and abnormalities of breathing.

**Part I: Mastering the Basics**

4. K The epiglottis directs food and water from the respiratory passages into this structure.
5. P Called the throat.
6. A Called the voice box because it contains the vocal cords.
7. L The point at which the trachea bifurcates (splits), the area is extremely sensitive and elicits coughing when stimulated (as in swallowing with a carbon).
8. B Located between the larynx and the bronchi and anterior to the esophagus.
9. D Composed of three parts—nose-, oro-, and laryngo-.
10. B Large tube that splits into bronchi.
11. H These small structures located within the bronchial tree are composed primarily of smooth muscle.
12. G The exchange of the respiratory gases between the air and blood occurs here.
13. F Large, soft, cone-shaped organs that contain the respiratory passages and pulmonary capillaries.

# Chapter 22 Respiratory System Study Guide Answers

**W. J. Leverich**



## Chapter 22 Respiratory System Study Guide Answers:

**Study Guide for The Human Body in Health & Disease** Linda Swisher, RN, EdD, Kevin T. Patton, PhD, Gary A. Thibodeau, PhD, 2013-02-15 Reinforce your understanding of the concepts in Patton and Thibodeau's *The Human Body in Health Disease* 6th Edition Corresponding to the chapters in the text this study guide reviews essential medical terminology concepts and processes related to the anatomy and physiology of the human body and body function in health and disease A variety of exercises make it easy to review and apply key concepts and labeling of anatomy drawings helps you learn anatomical structures and terminology UPDATED Did You Know provides fun interesting facts on A P topics A brief synopsis at the beginning of each chapter previews core concepts that will be covered Crossword Puzzle Unscramble and Word Find activities help you learn new vocabulary terms and their proper spelling Diagrams and labeling exercises reinforce your understanding of where the structures of the body are located Answers to exercises are located in the back of the study guide along with page number references to the textbook NEW Know Your Medical Terms exercises help you learn and understand the various word parts used in medical terminology as presented in the new Language of Science and Language of Medicine word lists in the textbook Matching and fill in the blank exercises enhance your comprehension of chapter content Application questions develop your critical thinking skills and help you apply information to real world scenarios

**Study Guide for The Human Body in Health & Disease - E-Book** Kevin T. Patton, Frank B. Bell, Terry Thompson, Peggie L. Williamson, Eric L. Sun, 2023-03-02 Reinforce your understanding of the concepts in Patton's *The Human Body in Health Disease* Corresponding to the chapters in the text this study guide reviews essential medical terminology concepts and processes related to anatomy and physiology and explains how body systems function in health and disease Each chapter begins with a quick synopsis of the key points in the textbook chapter A variety of exercises make it easier to review and apply key concepts and labeling of anatomy drawings helps in learning anatomical terms and structures Know your Medical Terms feature helps familiarize you with the various word parts used in medical terminology and pairs nicely with the Language of Medicine word lists in the main text to reinforce medical terminology concepts that are key to understanding A P Brief synopsis of core textbook concepts provides a comprehensive review of essential content Crossword Puzzles and Word Finds help you master new vocabulary terms Application Questions ask you to make judgments based on the information in the chapter Diagrams and labeling exercises help reinforce where the structures of the body are located Matching and fill in the blank exercises aid in understanding chapter content Answers to exercises are provided in the back of the guide along with references to the appropriate textbook page and the textbook objective so that you can easily find where the material is presented Study tips in the Preface provide an overview of the most effective methods for learning and retaining information

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