

8

Skeletal System

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. List the functions of the skeletal system and the classification of bones by size and shape.
2. Differentiate between the composition and location of compact and spongy bone.
3. Describe the structure of a long bone.
4. Describe the roles of osteoblasts and osteoclasts and how bones grow in length and width.
5. List the bones of the axial skeleton, and label important landmarks on selected bones.
6. List the bones of the appendicular skeleton, and label important landmarks on selected bones.
7. List the main types and functions of joints, and describe the types of joint movements.

Part I: Mastering the Basics**MATCHING****Long Bone**

Directions: Match the following terms to the most appropriate definition by writing the correct letter in the space provided. See text, pp. 115-118.

- | | |
|---------------------|------------------------|
| A. osteocyte | I. epiphyseal disc |
| B. osteoblast | J. endosteum |
| C. red bone marrow | K. osteoclast |
| D. compact bone | L. medullary cavity |
| E. spongy bone | M. periosteum |
| F. haversian system | N. epiphysis |
| G. trabeculae | O. articular cartilage |
| H. diaphysis | |

1. D Dense, hard type of bone
2. G Bony plates found in spongy bone
3. I Band of hyaline cartilage at ends of long bone; longitudinal bone growth occurs here.
4. M Tough outer connective tissue covering the diaphysis of a long bone
5. L Hollow center of the shaft of a bone
6. O Found on the outer surface of the epiphysis at a joint

7. F Microscopic unit of compact bone; also called an osteon
8. A Mature bone cell
9. J Inner lining of the medullary cavity of a long bone
10. H The shaft of a long bone
11. C Site of blood cell formation
12. K Eroding activity of this cell remodels and expands the medullary cavity.
13. B A bone-building cell
14. N Cancellous bone
15. Z The enlarged end of a long bone
16. E This type of bone has a punched-out or "Swiss cheese" appearance.
17. I Called the growth plate
18. K This cell is responsible for bone resorption.

MATCHING**Skull**

Directions: Match the following terms to the most appropriate definition by writing the correct letter in the space provided. Some terms may be used more than once. See text, pp. 120-125.

- | | |
|-----------------------------|--------------------|
| A. maxilla | G. occipital |
| B. mandible | H. sphenoid |
| C. palatine bones | I. zygomatic bones |
| D. frontal | J. temporal |
| E. parietal | K. ethmoid |
| F. external auditory meatus | L. fontanel |

1. B Lower jaw bone; contains the lower teeth
2. F Opening in the temporal bone for the ear
3. A Upper jaw bone; contains the upper teeth
4. H Cheekbones; also form part of the orbits of the eyes
5. E Forms the top and sides of the skull
6. K Forms the bony structure of the nasal cavity

Chapter 8 Skeletal System Answers

N Colangelo



Chapter 8 Skeletal System Answers:

Study Guide for The Human Body in Health and Illness - E-Book Barbara Herlihy,2013-12-27 Corresponding to the chapters in The Human Body in Health and Illness 4th Edition by Barbara Herlihy this study guide offers fun and practical exercises to help you review understand and remember basic A P Even if you find science intimidating this book can help you succeed Textbook page references are included with the questions to make information easy to find Each chapter includes three parts Mastering the Basics with matching ordering labeling diagram reading and coloring exercises Putting It All Together including multiple choice quizzes and case studies Challenge Yourself with critical thinking questions and puzzles

The Human Body in Health and Illness Barbara L. Herlihy,2014 Using colorful cartoons illustrations and an easy to read approach The Human Body in Health and Illness 4th Edition makes it fun to learn anatomy physiology Clear step by step explanations provide all the information you need to know so concepts are easy to understand even if you have a limited background in the sciences Written by well known educator Barbara Herlihy the book begins with a basic discussion of the human body and cellular structure and moves toward genetics and the greater complexity of the human organism It breaks down complex concepts and processes into digestible chunks and new features such as Re Think and Go Figure help you apply what you ve learned to common problems in patient care Full color illustrations simplify difficult concepts and complex processes Colorful cartoons use humor to clarify and reinforce the content making it more memorable accessible and reader friendly Interesting analogies and examples make learning easier especially if you re studying A P for the first time Key terms and objectives are listed at the beginning of every chapter setting learning expectations and goals with terms defined in a comprehensive glossary Did You Know boxes include brief vignettes describing clinical scenarios or historical events related to A P Review tools include chapter summaries Review Your Knowledge questions and Go Figure questions relating to figures and diagrams UPDATED illustrations and content keep A P information current and strengthen an already popular textbook UPDATED Medical Terminology and Disorders tables include pronunciations derivations and word parts along with expanded in depth descriptions of the most crucial information UPDATED The Evolve website assets include practice exams interactive activities and exercises the Body Spectrum Online Coloring Book and more

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on case based problem solving exercises provide further reinforcement and emphasis of important concepts An extensive glossary of nearly 700 items provides convenient access to definitions and descriptions *Fundamentals of Anatomy and Physiology* Frederic Martini,1989 0 13 009021 2 Martini Frederic H Fundamentals of Anatomy and Physiology Learning System Edition Fifth Edition Fundamentals of Anatomy Physiology Fifth Edition is the core of the Martini Learning System Edition This innovative new format contains the complete text unabridged unbound and three hole punched as well as the Martini Interactive Student CD ROM and access to the Martini Online Web site Martini Learning System Edition gives readers flexibility and convenience without sacrificing high quality content This books covers all body systems and organs For college instructors students and readers who already have an introduction to anatomy and physiology This is a sophomore level book related to the fields of biology allied health nursing and physical education **McGraw-Hill's SAT Subject Test: Biology E/M, 2/E** Stephanie Zinn,2009-02-01 We want to help you score high on the SAT Biology E M tests We ve put all of our proven expertise into McGraw Hill s SAT Subject Test Biology E M to make sure you re fully prepared for these difficult exams With this book you ll get essential skill building techniques and strategies created by leading high school biology teachers and curriculum developers You ll also get 5 full length practice tests hundreds of sample questions and all the facts about the current exams With McGraw Hill s SAT Subject Test Biology E M we ll guide you step by step through your preparation program and give you the tools you need to succeed 4 full length practice exams and a diagnostic exam with complete explanations for every question 30 top test items to remember on exam day A step by step review of all topics covered on the two exams Teacher recommended tips and strategies to help you raise your score *A Phlebotomy Workbook for the Multiskilled Healthcare Professional* Susan K. Strasinger,Marjorie A. Di Lorenzo,Marjorie Schaub Di Lorenzo, Strasinger, MT(Ascp)Sh,1995 Written to comply with guidelines established by national certifying organizations and in accordance with OSHA and NCCLS guidelines [Histology: The Big Picture](#) John F. Ash,David A. Morton,Sheryl A. Scott,2012-10-19 Get the BIG PICTURE of Histology and zero in on what you really need to know to ace the course and board exams 400 FULL COLOR ILLUSTRATIONS Medical Histology The Big Picture is a different kind of study tool With an emphasis on what you need to know versus what s nice to know and featuring more than 400 full color illustrations and micrographs it offers a focused streamlined overview of human histology You ll find a succinct user friendly presentation designed to make even the most complex concepts understandable in a short amount of time With just right balance of information to give you the edge at exam time this unique combination text and atlas features An efficient study enhancing design consisting of text on the left hand page and related illustrations on the right hand page allowing you to grasp individual principles one concept at a time The inclusion of detail often clinical in nature that clarifies the link between the structural and functional applications of histology Review questions and answers at the end of each chapter A complete final exam at the end of the book Icons that indicate high yield clinically relevant concepts Key Structures highlighted when they

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