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this chapter begins with an overview of anatomy and physiology and a preview of the body regions and functions it then covers the characteristics of life and how the body works to maintain stable conditions chapter objectives after studying this chapter you will be able to compare and contrast the study of anatomy and physiology describe the structure of the body from simplest to most complex define homeostasis and explain its importance to normal human functioning 1 1 how structure determines function 1 2 structural organization of the human body 1 3 homeostasis 1 4 anatomical terminology 1 5 medical imaging chapter 2 the chemical level of organization 2 0 introduction 2 1 elements and atoms the building blocks of matter 2 2 chemical bonds 2 3 chemical reactions learning objectives by the end of this section you will be able to compare and contrast anatomy and physiology including their specializations and methods of study discuss the fundamental relationship between anatomy and physiology human anatomy is the scientific study of the body s structures this textbook covers all the topics in anatomy and physiology that are necessary for a regular undergraduate degree these topics range from the structure and function of individual cells to the many systems of the body each chapter gives a read more reviewed by kimberly huey professor drake university on 11 22 22 this chapter begins with an overview of anatomy and a preview of the body regions and functions it introduces a set of standard terms for body structures and for planes and positions in the body that will serve as a foundation for more comprehensive information covered later in the text learn about human anatomy and physiology online by downloading openstax s free anatomy and physiology 2e book and using our accompanying study guide chapter 1 introduction to human anatomy and physiology in this chapter pre test post test student study outline answers student ppt learning outcomes flashcards vocabulary anatomy physiology revealed offers a full educational experience for all students including realistic dissections anatomical and 3d models animations histology and imaging in an engaging easy to navigate platform accessible anytime anywhere study with quizlet and memorize flashcards containing terms like anatomy physiology gross anatomy and more quiz yourself with questions and answers for anatomy and physiology chapter 1 practice test so you can be ready for test day explore quizzes and practice tests created by teachers and students or create one from your course material physiology explains how the structures of the body work together to maintain life it is difficult to study structure anatomy without knowledge of function physiology the two disciplines are typically studied together because form and function are closely related in all living things the scientific discipline that investigates the body s structure and shape is called anatomy embryology endocrinology histology physiology anatomy the anatomical position is characterized by all of the following except body erect description lecture notes human physiology provides concise coverage of general physiology for medical students as well as students of biological sciences sport science pharmacology and nursing this fifth edition of the ever popular lecture notes human physiology has been thoroughly revised and updated by a new international team of authors contents chapter 1 an introduction to the human body chapter 2 the chemical level of organization chapter 3 the cellular level of organization chapter 4 the tissue level of organization chapter 5 the integumentary system chapter 6 bone tissue and the skeletal system chapter 7 axial skeleton chapter 8 the appendicular skeleton the anatomy and physiology of the human body is covered in detail in 19 chapters of which the first three deal with chemical constituents and structural and functional units of life while the rest deal with one body system each this edition is revised thoroughly the illustrations in particular are presented with enhanced quality and full color physiology science that studies the

chemistry biochemistry and physics of the body s functions plane imaginary two dimensional surface that passes through the body pleura serous membrane that lines the pleural cavity and covers the lungs positive feedback six levels of organization chemical cellular tissue organ organ system organism skeletal system protects and supports body organs and provides a framework the muscles use to support movement consists of bones cartilages ligaments and joints also provides muscle attachment for movement muscular system join kumiko in the manga guide to physiology as she examines the inner workings of the body while training hard for the campus marathon you ll learn all about how the digestive system and the citric acid cycle break food down into nutrients and energy how the body regulates temperature and vital fluids 1 1 overview of anatomy and physiology 1 2 structural organization of the human body 1 3 functions of human life 1 4 requirements for human life 1 5 homeostasis 1 6 anatomical terminology 1 7 medical imaging key terms chapter review interactive link questions review questions critical thinking questions

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1 1 how structure determines function 1 2 structural organization of the human body 1 3 homeostasis 1 4 anatomical terminology 1 5 medical imaging chapter 2 the chemical level of organization 2 0 introduction 2 1 elements and atoms the building blocks of matter 2 2 chemical bonds 2 3 chemical reactions

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learning objectives by the end of this section you will be able to compare and contrast anatomy and physiology including their specializations and methods of study discuss the fundamental relationship between anatomy and physiology human anatomy is the scientific study of the body s structures

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this textbook covers all the topics in anatomy and physiology that are necessary for a regular undergraduate degree these topics range from the structure and function of individual cells to the many systems of the body each chapter gives a read more reviewed by kimberly huey professor drake university on 11 22 22

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physiology explains how the structures of the body work together to maintain life it is difficult to study structure anatomy without knowledge of function physiology the two disciplines are typically studied together because form and function are closely related in all living things

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the scientific discipline that investigates the body s structure and shape is called anatomy embryology endocrinology histology physiology anatomy the anatomical position is characterized by all of the following except

body erect

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physiology science that studies the chemistry biochemistry and physics of the body s functions plane imaginary two dimensional surface that passes through the body pleura serous membrane that lines the pleural cavity and covers the lungs positive feedback

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six levels of organization chemical cellular tissue organ organ system organism skeletal system protects and supports body organs and provides a framework the muscles use to support movement consists of bones cartilages ligaments and joints also provides muscle attachment for movement muscular system

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