CHAPTER 6 - SKELETAL SYSTEM

COMPONENTS:

- Bones
- Joints & Associated Cartilages

SKELETAL.

- Derived from Greek word meaning "dried"
- Consist of dynamic, living tissues that are able to grow, detect pain stimuli, adapt to stress & undergo repair after injury.
- <u>FRAMEWORK</u> to support the soft tissues of the body.

MAJOR FUNCTIONS:

- 1.) SUPPORT
 - Major supporting tissues of the body
 - Cartilages provides <u>firm yet flexible</u> <u>support</u> (ex. Nose, external ear, thoracic cage & trachea)
 - Ligaments strong bands of fibrous connective tissue that attach to bones & hold them together.
- 2.) PROTECTION
 - Protects the organ it surrounds

(Ex. Skull encloses and protects the brain)

3.) MOVEMENT

- Tendons skeletal muscles attach to bones
- Smooth Cartiloges covers the ends of bones within some joints; allowing the bones to move freely
- Ligaments <u>allow some movements</u> between bones but prevent excessive movements
- 4.) STORAGE
 - Calcium & Phosphorus taken into bones and stored
 - * Adipose tissue-stored w/in bone cavities (fats)
 - Lipids Released into the blood and used by other tissues as a source of energy
- 5.) BLOOD CELL PRODUCTION
 - Cavities filled with <u>red bone morrow</u>
 - produces blood cells
 platelets

EXTRACELLULAR MATRIX

- Collagen (Tough rope-like proteins)
- Proteoglycans (Polysaccharides)
- Tendons (Collagen Fibers)
- Ligaments (Collagen Fibers)
- Cartilage (Collagen & Proteoglycans)
- Hydroxyapatite (Calcium Phosphate Crystals)

GENERAL FEATURES OF BONE

- 1. LONG BONES
 - Longer than they are wide
- 2. SHORT BONES
 - Broad as they are long
- 3. FLAT BONES
 - Relatively thin, flattened shape
- 4. IRREGULAR BONES
 - Vertebrae & Facial Bones

STRUCTURE OF A LONG BONE



- DIAPHYSIS
 - Central Shaft
- EPIPHYSIS
 - Two ends.
- ARTICULAR CARTILAGE
 - covers the ends of the epiphyses where the bone articulates with other bones.
- EPIHYSEAL PLATE
 - Growth plate, where the bone grows in length
 - Composed of cartilage, between each epiphysis and the diaphysis
- EPIPHYSEAL LINE
 - When the bone growth stops, this replaces the epiphyseal plate.
- MEDULLARY CAVITY
 - Large cavity in the diaphysis
- MARROW
 - A soft tissue that fills the spaces
 - Yellow Marrow consist of mostly adipose tissues; Red Marrow – consist of blood-forming cell and is the only site of blood formation in adults.
- PERIOSTEUM
 - Covers most of the outer surface of the bones
 - Encloses the diaphysis
 - Contains blood vessels and nerves
- ENDOSTEUM
 - Thinner connective tissue membrane that lines the surface of the medullary cavity

Anatomy And Physiology Chapter The Skeletal System Answers

Elliot Spencer

Anatomy And Physiology Chapter The Skeletal System Answers:

CliffsStudySolver: Anatomy and Physiology Steven Bassett, 2007-05-03 The CliffsStudySolver workbooks combine 20 percent review material with 80 percent practice problems and the answers to help make your lessons stick CliffsStudySolver Anatomy Physiology is for students who want to reinforce their knowledge with a learn by doing approach Inside you ll get the practice you need to bone up on body systems and more with problem solving tools such as Straightforward concise reviews of every topic Terms and principles for each subject Helpful charts and illustrations Practice problems in every chapter with explanations and solutions A diagnostic pretest to assess your current skills A full length exam that adapts to your skill level Starting off with an introduction to anatomical terms and physiological concepts this workbook ventures into cellular structure cell reproduction and chemistry both organic and inorganic You ll explore the muscular central nervous lymphatic and endocrine systems plus details about Skin hair nails and glands Bones of the cranium sternum and vertebral column The five senses Blood composition and types Metabolism of fat protein and carbohydrates The male and female reproductive systems Practice makes perfect and whether you re taking lessons or teaching yourself CliffsStudySolver guides can help you make the grade Author Steven Bassett started teaching anatomy and physiology at the high school level in 1978 He has been the lead instructor for anatomy and physiology at Southeast Community College in Lincoln Nebraska since 1990 He is adjunct professor in the Physician's Assistance Program at Union College in Lincoln Anatomy & Physiology All-in-One For Dummies (+ Chapter Quizzes Online) Erin Odya, 2023-03-28 The knee bone's connected to the what was it again From complicated Latin names to what can seem like a million and one things to memorize no one s saying anatomy and physiology is easy But with a little help from your friends at Dummies it doesn't have to be impossible Anatomy Physiology All in One For Dummies is your go to guide for developing a deep understanding of the parts of the human body and how it works You ll learn the body s structures and discover how they function with expert help from the book s easy to use teaching features You can even go online to access interactive chapter guizzes to help you absorb the material With this book you ll Get a grip on key concepts and scientific terminology used to describe the human body Discover fun physiology facts you can apply to everyday life both inside and outside the classroom Learn how the body s different systems interact with one another So if you re looking to ace that next test improve your overall grade reduce test anxiety or just increase your confidence in the subject grab a copy of Anatomy Physiology All in One For Dummies It's your one stop comprehensive resource for all things A P **Human Anatomy and Physiology-I** Dr. Virendra Kumar & Dr. Prafulla P. Adkar-Patil, 2022-12-01 The PCI B Pharm First semester Human Anatomy and Physiology I PDF Book is a comprehensive guide to the fundamental principles of anatomy and physiology It covers a wide range of topics including cell structure tissues organs and systems of the human body It also includes clinical correlations that help students understand the relevance of anatomy and physiology to clinical practice With clear illustrations and concise explanations this

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