

SKELETAL SYSTEM

READING COMPREHENSION



SKELETAL SYSTEM

THE FRAMEWORK OF THE HUMAN BODY

Read the text below and then answer the questions.



The skeletal system, or skeleton, is made of bones, cartilage, ligaments, and ligaments, which are the framework of the human body. Its multifunctional functions extend far beyond mere structural support and locomotion; instead, it serves as a dynamic and interconnected network that facilitates various physiological processes.

Bones, the fundamental building blocks of the skeletal system, exhibit a diverse array of shapes and sizes, each tailored to specific functions. Long bones, such as those in the limbs, provide support and facilitate movement, while flat bones, like the skull, offer protection. The vertebral column, or spine, is the central axis of the skeleton, providing structural support and flexibility. This diversity serves a common purpose – to create a robust framework that not only supports the body's weight but also protects delicate organs.

Beyond the physical structure, the skeletal system is intricately linked to other physiological processes. Cartilage, found between bones, acts as a shock absorber, allowing for smooth movement. Ligaments, which connect bones to other bones, provide stability and prevent dislocation. The process of bone remodeling, where old bone is resorbed and new bone is formed, is a continuous cycle that adapts the skeleton to changing demands. This process is regulated by hormones, particularly parathyroid hormone-related protein (PTHrP), which stimulates bone resorption. The skeletal system also plays a role in hematopoiesis, the production of blood cells, which occurs in the bone marrow.

Cartilage, a flexible but resilient connective tissue, plays a critical role in the skeletal system. It covers the surfaces of joints, ensuring smooth movement by reducing friction and acting as a shock absorber. Articular cartilage, found on the ends of long bones, allows for graceful and fluid joint motion. However, cartilage is not inert in the growth process, serving as a precursor to bone formation in developing individuals.

Ligaments, which connect bones to other bones, are vital for the dynamic composition of the skeletal system. They provide a network of support, enabling movement by distributing the force generated during muscle contraction. Ligaments, on the other hand, are found in other joints, providing stability to joints. Together, these structures facilitate coordinated and controlled movements, allowing individuals to perform a wide range of activities.

The skeletal system is not a static entity but rather a dynamic and adaptive one. Throughout life, bones undergo a process of remodeling, responding to mechanical stress, hormonal fluctuations, and other physiological factors. Osteoblasts, responsible for bone formation, and osteoclasts, responsible for bone resorption, work in tandem to maintain a balance between bone construction and breakdown.

The health of the skeletal system is intricately linked to nutritional factors. Calcium, a key mineral, is essential for bone structure and function. Vitamin D, which plays a crucial role in calcium absorption, also influences bone health. Deficiencies in these nutrients can lead to conditions such as osteoporosis, characterized by weakened and brittle bones.

As individuals age, the skeletal system undergoes natural changes. Bone density decreases, leading to an increased risk of fractures and joint issues. However, adopting a proactive approach to bone health can mitigate these age-related changes. Regular weight-bearing exercise, proper nutrition, and a healthy lifestyle contribute significantly to maintaining a strong and functional skeleton.

In essence, the skeletal system is a testament to the intricate design and functionality of the human body. Beyond its foundational role in providing structural support, it is an active participant in various physiological processes.



Skeletal System Reading Essentials In Science

Christine Webster



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