



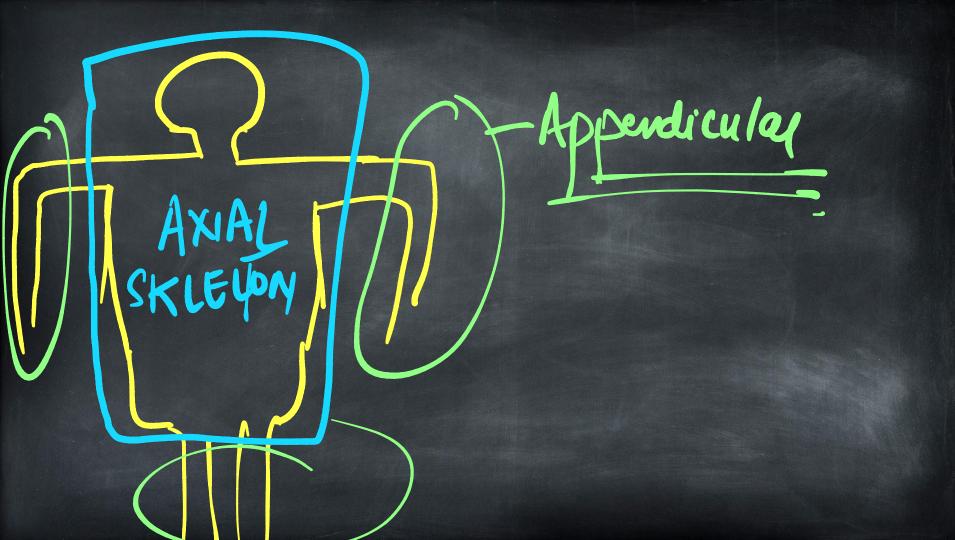
Mega Test - Locomotion and Movement

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🗎 13 November, 2023

© 6:00 PM - 7:30 PM

Skeletal (206) System Appendicular (126) AXIAL (80) SKULL - 8+14 (22); Circles - Vertebral Column Limbs - Sternum - Ribs. - Hyoid Ear ossides



Cranium 8- bones Rest umpairco Dorred - FRONTAL(1) Parietal 12 & Pituitary glave - Occipital - Temporal (2 a Sella Tyrsica - Sphenoid (1 - Ethamoid(1) articulates with all PATH TO SUCCESS IS ELVIATION Cranial Bonel.

Facial Bones (14)
- Nasal (2) - 2n francial (2) - 24 gromatic (2) - Lacoymals 1-) - Vomer (1) - Maxilla (2) - Mardiblele (1). - Palatine (-)

Only movable Bone in Ckull- Mardibles

tryoid (I) C Tongue Bond

Lingle does not articulate

Cingle with any other Bone

For Occicle - Malleus Oncus Stopes

- Hummer Anvil Chrosup,

Vertebral Column -> Adult= 26 Autant = 33. Ribs = 24(12 pare) Vertebral Ribe Toul Verteboosternal Ist Ipair of Ribs. Vertebro to 7th Otti, 9t4, 10tu

Adult = 26 Vertebral Column -> Autant = 33. Floating Ribs

The Kidney protection.

Vertebral Ribs Tow Verteboosternal Ist Ipair of Ribs. Vertebro to 7th 8th, 9th, 10th

Ja Acromion Brocess
articulate with
Clavity
articulate with head of
lumens.

Vertebral Column C, -s Atlas
C, -s Axis
C, -s Axis
C, -s Axis CTLSCO = 26 Adults Stoongest = Cumbar CyTiz Ly S5 Coy = 33. Children Ribs -> Theracic -> Cervical Chare. (2°)
-Thoracic Chare. (1°) Lumbar Curve (3°) Pelvic Curve (1º)

Bicephalic Vertebral He Extrimity Cartilage Extermity

ARTHROLOGY Acticulating JOINTS 7 Carolis Lucly Movable Slightly movable dmm-vable U Joint Librous Cartilggenous ly nor thrones Amphigathraces -data vertebral - Suturos disc - Pubic Symphyles. - Gouphoses Sterrium & Ribe Clostal (gotilage)



Oestorgen. remales antogonisticts
Parathyroid Hormone(PTH) lengause PTH797 Osteoclast (E) Law

alium-Bone aleum-dntestine





There are 12 pairs of **ribs**. Each rib is a thin flat bone connected dorsally to the vertebral column and ventrally to the sternum. It has two articulation surfaces on its dorsal end and is hence called bicephalic. First seven pairs of ribs are called true ribs. Dorsally, they are attached to the thoracic vertebrae and ventrally connected to the sternum with the help of hyaline cartilage. The 8th, 9th and 10th pairs of ribs do not articulate directly with the sternum but join the seventh rib with the help of hyaline cartilage. These are called vertebrochondral (false) ribs. Last 2 pairs (11th and 12th) of ribs are not connected ventrally and are therefore, called floating ribs. Thoracic vertebrae, ribs and sternum together form the rib cage (Figure 20.8).







Pelvic girdle consists of two coxal bones (Figure 20.10). Each coxal bone is formed by the fusion of three bones – ilium, ischium and pubis. At the point of fusion of the above bones is a cavity called acetabulum to which the thigh bone articulates. The two halves of the pelvic girdle meet ventrally to form the pubic symphysis containing fibrous cartilage.

20.4 JOINTS

Joints are essential for all types of movements involving the bony parts of the body. Locomotory movements are no exception to

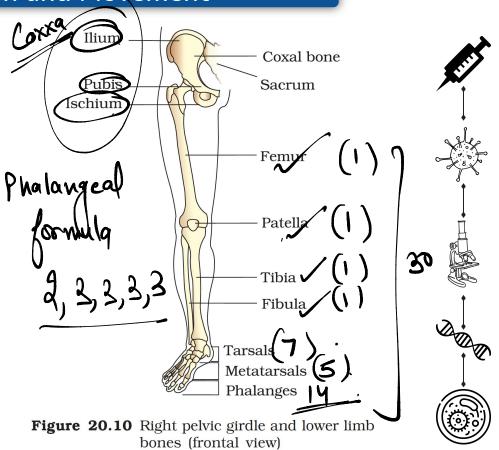
















Synovial joints are characterised by the presence of a fluid filled synovial cavity between the articulating surfaces of the two bones. Such an arragement allows considerable movement. These joints help in locomotion and many other movements. Ball and socket joint (between humerus and pectoral girdle), hinge joint (knee joint), pivot joint (between atlas and axis), gliding joint (between the carpals) and saddle joint (between carpal and metacarpal of thumb) are some examples.









20.5 DISORDERS OF MUSCULAR AND SKELETAL SYSTEM

Myasthenia gravis: Auto immune disorder affecting neuromuscular junction leading to fatigue; weakening and paralysis of skeletal muscle.

Muscular dystrophy: Progressive degeneration of skeletal muscle mostly due to genetic disorder.

Tetany: Rapid spasms (wild contractions) in muscle due to low Ca++ in body fluid.

Arthritis: Inflammation of joints.

Osteoporosis: Age-related disorder characterised by decreased bone mass and increased chances of fractures. Decreased levels of estrogen is a common cause.

Gout: Inflammation of joints due to accumulation of uric acid crystals.









