Cheatography

Support & Movement Cheat Sheet by Abdul Manan (Abdul Manan) via cheatography.com/204478/cs/43594/

Human Skeleton

Human have around 300 bones at birth

206 bones when adult

18% of total body weight

Bone

Along bone has 3 distinct regions Epiphysis, Diaphysis and Metaphysis

3 types of cells,Osteoblast,Osteoclast & Osteocytes

Cartilage

Only one type of cells chondrocytes

3 types of cartilage, Hyaline,-Elastic & Fibrocartilage

Axial Skeleton

Consists of skull, vertebral column,sternum and ribs

Skull parts; Cranium, facial and Ear ossicles

Cranium 8 bones

Facial 14 bones

Ear ossicles 6 bones

1 hyoid bone

In Cranium,2 paired bones named Parietal and Temporal bones

In Cranium,4 unpaired bones named Sphenoid, Occipital, Frontal and Ethmoid

In Facial bones, 6 paired bones named Palatine, Maxilla, Lacrima-I,Nasal,Inferior concha and Zygomatic

In Facial bones,2 unpaired bones named Vomer & Mandible

In Ear ossicles,3 paired bones named Malleus, Incus & Stapes

> By Abdul Manan (Abdul Manan) cheatography.com/abdulmanan/

Axial Skeleton (cont)	Joints
Vertebral column parts;	Site 2 o
Cervical, Thoracic, Lumber & Pelvic	Approxi body
Cervical - 07 vertebras	3 types:
Thoracic - 12 vertebras	Synovia
Lumber - 05 vertebras	Differen
Pelvic -09 vertebras fusion into 2 named Sacrum 05 vertebras & Coccyx 04 vertebras	present Pivot,Ba Gliding
Total Vertebras no: 26	Dioordo
Ribs types True,False & Floating	Disolue
True ribs number 14 (07 pairs)	Mainly:
False ribs number 06 (03 pairs)	Ociatica
Floating ribs number 04 (02	Muscles
pairs)	Half of t
Total bones in Axial Skeleton Skull-29, Vertebral column - 26,Sternum-01 and Ribs-24 = 80 bones	3 types Cardiac
	Muscle
	Myofibr
Appendicular Skeleton	Myosin
consists of 126 bones	diamete

Divisions:Pectoral girdle+Fore limb& Pelvic girdle & Lower limb Total no of bones associated with Pectoral girdle=64 bones (both sides)

2-Clavicle,2-scupula in pectoral girdle both sides(Total 4)

Anterior limb(Arm) bones:2-humerus,2-radius,2-ulna,16-carpals,10-metacarpals & 28 phalanges in both both limbs

Total no of bones associated with Pelvic girdle=62

2-coxal bones, posterior limbs include,2-femur,2-tibia,2-fibula,-2-patella,14-tarsals,10-metatarsals & 28 phalanges

r more bones meet imately 360 joints in our

Fibrous, Cartilaginous & al

t types of synovial joints in our body like Hinge,all & Socket, Condyloid, Joint

s of Skeleton

Disc slip, Spondylosis, & Arthritis

,it's types & Structure

the human body mass of muscles: Skeletal, &Smooth

fibre diameter 10-100um

ils diameter 1-2um

filament is thick,16nm in ٩r

Actin filament is thin.7-8nm in diameter

The Sliding Filament Model of muscle contraction proposed by Hugh Huxley & Jean Hanson in 1954

Energy of muscle contraction

ATP & Phosphocreatine

ATP: Immediate source of energy for muscle contraction

Energy of muscle contraction (cont)

Phosphocreatine: reserve of high-energy phosphate comoound.Of the total energy expended in muscle contraction, only 35% is utilized for the performance of work: remaining is liberated in the form of heat, which is employed to maintain body temperature

Muscle Problems

Cramps, Muscle Fatigue & Tetany

Muscle cramps often occur after exercise or at night, lasting a few seconds to several minutes

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