Date _____

Expt. No. 1 Page No. 01

Aim :- To identify the appendicular bones and axial bones with the help of humans skeleton system model.

Reference :-

A practical book of "human anatomy and physiology" by Dr. Shilpa A. Deshpande, Dr. Niraj S. Vyawahare, 4th Edition of Nirali Prakashan, Page No :- 3-5.

Requirement :-

Human skeletal system model.

Theory :-

Bone is a tough and rigid form of connective tissue. It is weight bearing system of human body and it is responsible for all moves, all strength of human skeleton.

The human skeleton system consist of all the bones, cartilage, tendons and ligaments in the body.

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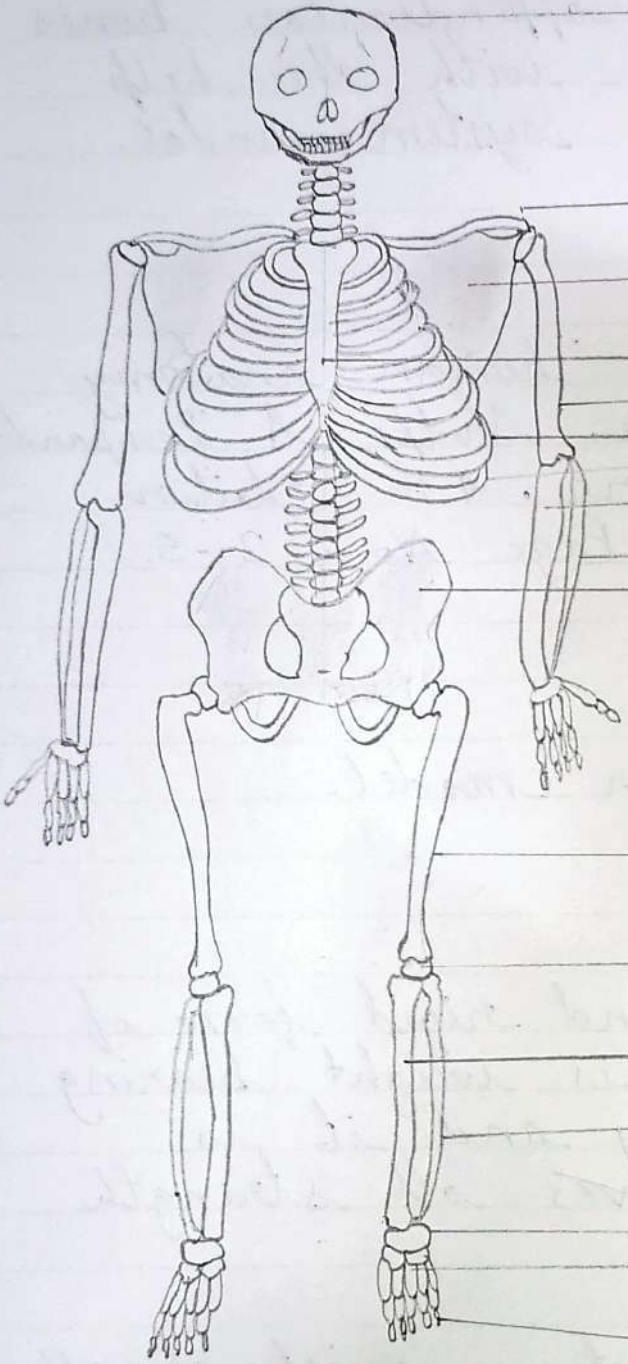

Human Skeleton System

The human skeleton system is divided into two parts :-

i) Axial skeleton
ii) Appendicular skeleton

The axial skeleton consist of :-

i) The skull.
ii) The sternum.
iii) The ribs.
iv) The vertebral column.

The appendicular skeleton consist of :-

(i) The upper extremities
(ii) The lower extremities
(iii) The shollder girdle
(iv) The ~~pt~~ pelvic girdle

<u>Composition of bones :-</u>

(a) Axial bone (80)
→ Skull (22 bone)
→ Cranial bone - (8 bone)
→ Facial Bone - (14 bone)

(i) Cranial bone consist of :-
→ Frontal bone (1)
→ Parietal bone (2)
→ Occipetal bone (1)

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→ Temperal bone (2)
→ Sphenoid bone (1)
→ Ethmoid bone (1)

(ii) Facial bone consist of 14 bones:-

→ Nasal bone (2)
→ Zygomatic bone (2)
→ Lacrimal bone (2)
→ Vomer (1)
→ Paiatine bone (2)
→ Inferior nasal conchae (2)
→ Maxilla (2)
→ Mandible (1)

(b) Middle ear bone

→ Maueus (2)
→ Incus (2)
→ Staps (2)

(c) Hyeid bone

(i) Thoracic cage (Rib cage) 25
→ Ribs (24
→ Sternum (1)

Date _____

Expt. No. 1 Page No. 09

(ii) Vertebral column (26)

→ Cervical vertebrae (7)
→ Thoracic vertebrae (12)
→ Lumber vertebrae (5)
→ Sacral vertebrae (5)
→ Coccyx vertebrae (1)

(2) Appendicular skeleton : (126)

(a) → Upper limb (30+30)
→ Humerus (2)
→ Ulna (2)
→ Radius (2)
→ Carpals (16)
→ Metacarpals (10)
→ Phalanges (28)

(a) Lower limbs :

→ Femur (2)
→ Tibia (2)
→ Fibula (2)
→ Patella (2)
→ Tarcel (14)
→ Metatarsal (10)
→ Phalanges (28)

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→ Clavical (2)
→ Scapula (2)
→ Hip bone (2)

Conclusion:

The human skeleton was studied and discuss with help of model.