

Aim :- To identify the appendicular bones and axial bones with the help of human 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.

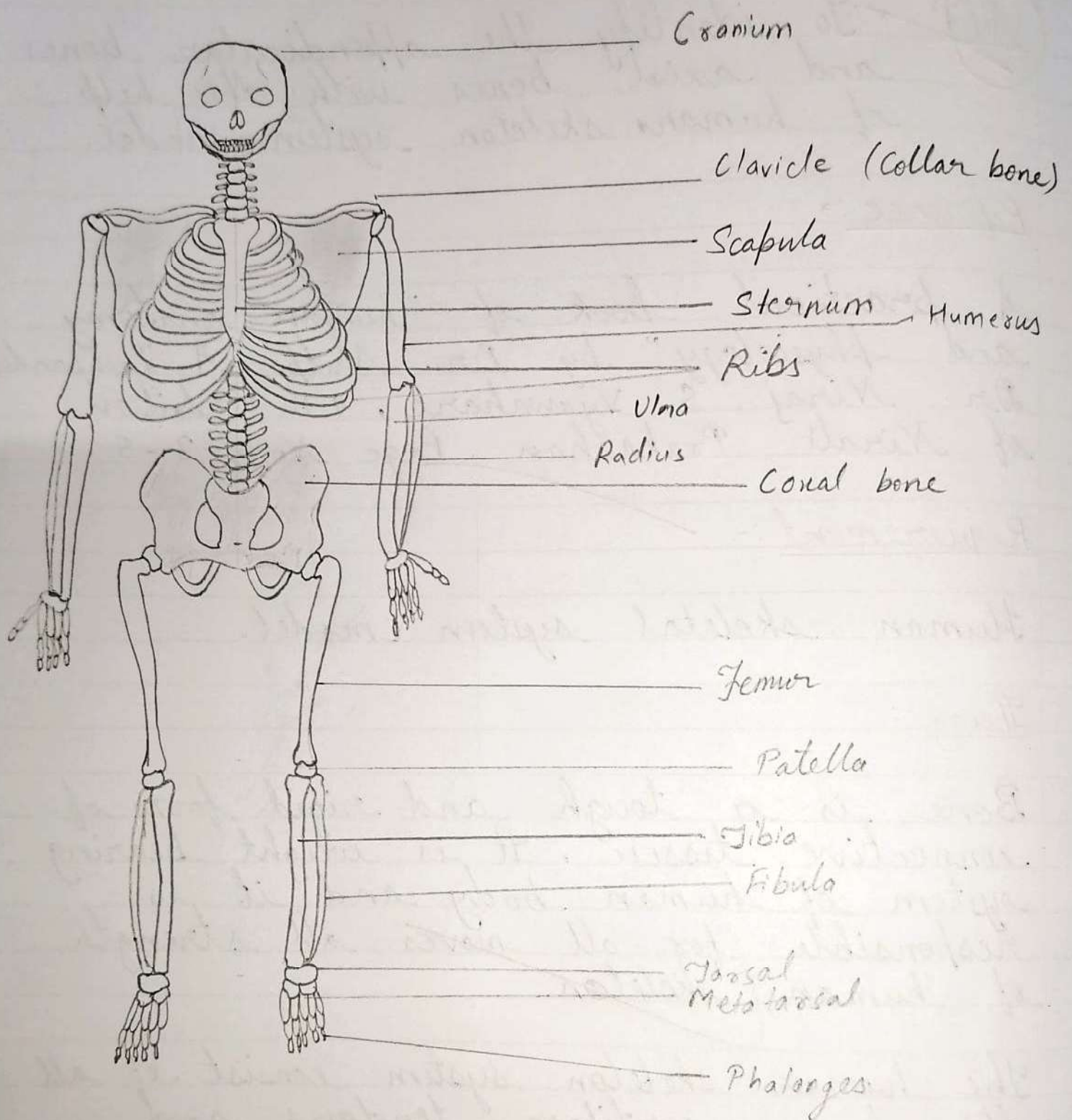
Requirement :-

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.



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 shoulder girdle
- (iv) The ~~pt~~ pelvic girdle

Composition of bones :-

(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)
- Occipital bone (1)

- Temporal 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)
- Palatine bone (2)
- Inferior nasal conchae (2)
- Maxilla (2)
- Mandible (1)

(b) Middle ear bone

- Malleus (2)
- Incus (2)
- Stapes (2)

(c) Hyoid bone

(i) Thoracic cage (Rib cage) 25

- Ribs (24)
- Sternum (1)

(ii) Vertebral column (26)

- Cervical vertebrae (7)
- Thoracic vertebrae (12)
- Lumbar 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)
- Tarsal (14)
- Metatarsal (10)
- Phalanges (28)

- Clavical (2)
- Scapula (2)
- Hip bone (2)

Conclusion:

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

