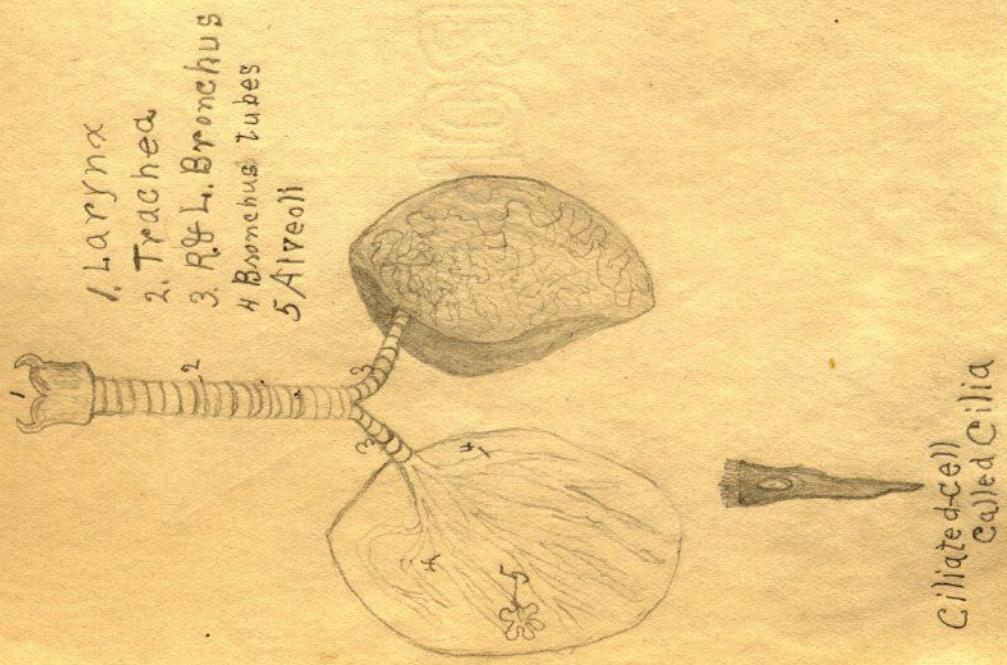


Geo. Barton,

A. C. U.

Red	Shape = Circular - biconcave-disk.
	Origin red marrow of bone water 5000 cc or over.
Cells	Comp } Haemoglobin & Mineral Matter.
	Function carry oxygen
White	Shape: irregular
	Size: large than a red and not only 1 to 30 red. Function: in lymph glands.
Blood	Function: destroys foreign substances.
	= $\frac{1}{13}$ of weight of body.
Plasma	Proteids gly and fatty matters
	Serum } sugar and common salts carbonate of soda and water made from various tissues.
Fibrinogen	Use = Coagulates the blood.
	2. 1. 1. 1. 1. T



Circulatory Organs



4 Stomach { Churns &
Organs Munch } mix food

Tubular
Glands {
Raceme
Compound Raceme

"

Mutalizer Alkalie
Hcl. } Dissolves Carbonate of Ph & off lime.

Gastric Juice Acid

Pepsin Changes Proteids To Peptone

Rennin Coagulates Milk

Organs {
Muscles {
Cerv. mouth {
curves food & chew.

Liver } helps emulsifies fat.
Amylopase } Starch To dextrose

Trypsin — Proteids To Peptone

Glande } H. pancreas {
Stomach — Breaks down fat
Insvertin changes sugar into
fat.

1) Prehension

Teeth

Teeth
Tongue
Cheeks
Lips

2) Mastication

Digestion

Kinds of Saliva
Parotid
Sublingual
Submandibular

Glands

Moistens food
Destroys salts & sugar
Secretion - Saliva (alkaline)
Amylase = starch to
Sugar

3) Deglutition

Tongue
Frices

Soft palate

Epiglottis
Pharynx

Besophagus

Stomach { Opening { Cardiac Orifice
 { Pharyngeal Orifice
Glands { Gastric Glands

Small { Duodenum
 { Jejunum
 { Ileum

Intestines { Ileo caecal Valve, where the two meet.

Cæcum { Ascending Colon
Large { Colon { Transverse "
 { Rectum { Descending "

All Cæcum

1 Mouth Lips { Concentrate epithelium
cheeks " Muciform "
Tongue { Muciform "

Palate { Hard &
Soft

Teeth { Odonts { Milk (20) 2 fm, 1 C, 2 M.
Folment (32) 2 fm, 1 C 2 Bp, 3 M.
Structure { Ext { crown
neck
Tang
Int { Pulp cavity
Dentine
Cement
Glands { Sublingual
Submaxillary

2 Pharynx or
throat cavity

3 Oesophagus or
gullet.

Brothers Standard Diet

Proteids & Starch Carbohydrates

4.5 oz. 4.9. 17.5 oz.

4.5% in cheese. Cheese required to furnish one man a day.

Pro. Starch
4.5. 4. 17.5
Carbohydrates

Please to furnish carbohydrates
Culin uses
 $17.5 \div 55\% = 24.5$ oz required to furnish one man a day.

Good butter to furnish fat.

fat in butter
 $4.5 \div 80\% = 4.9$ oz. required to furnish one man a day.

Green meat to furnish Proteids
 $4.5 \div 20\% = 2$ lbs in green meat a day.

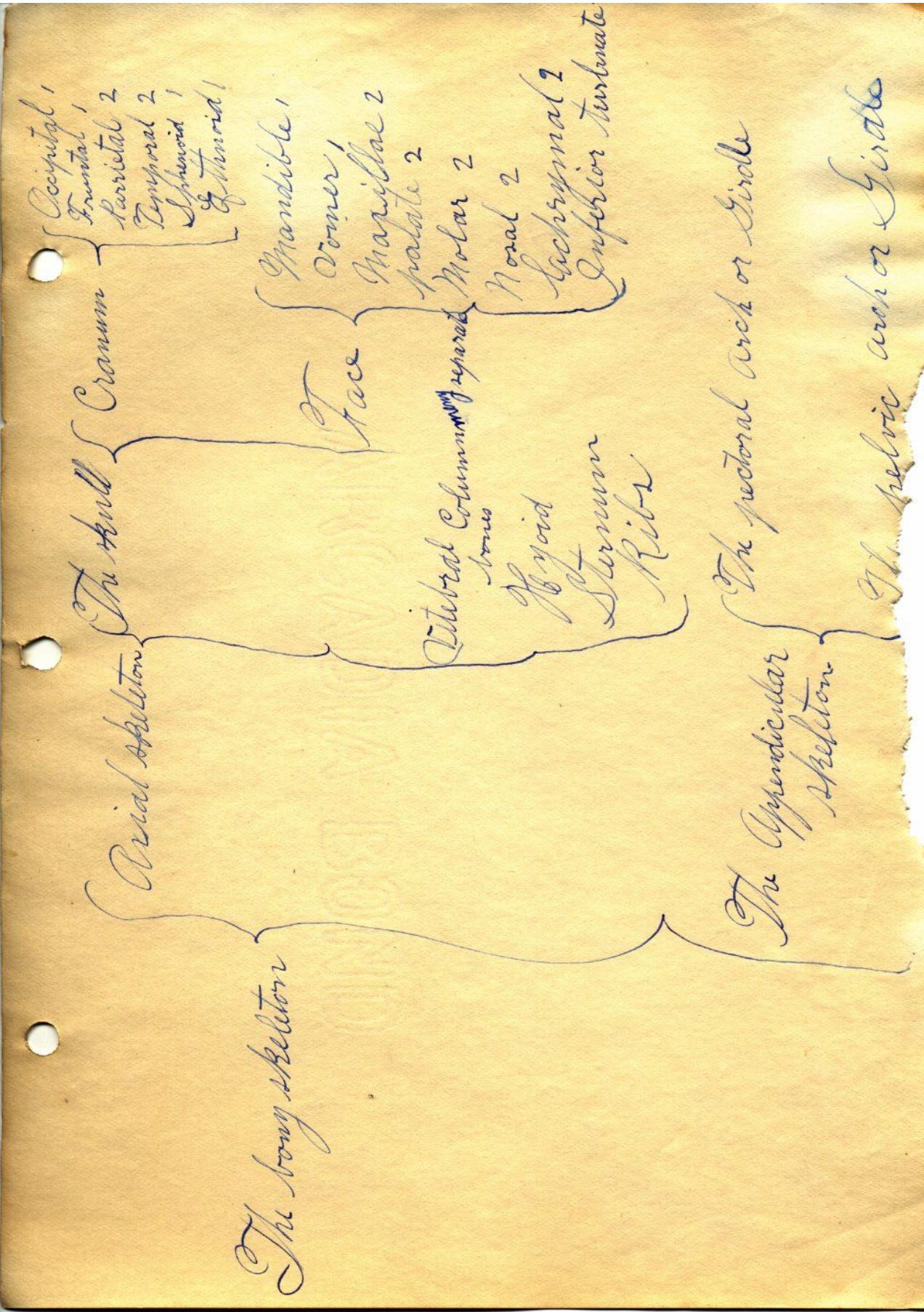
The appendicular skeleton

(The pectoral girdle)

(Clavicle, Scapula, Humerus, Radius, Ulna, Coracals, Metacarpals, Phalanges) *(As innervation 2)*

(The pelvic girdle)

(Femur, Tibia, Fibula, Ischium, Sacrum, Tarsal, Metatarsal, Phalanges) *(As innervation 1)*



Chemical Composition of the body.

Inorganic { H_2O
 { $NaCl$
 { Phosphates &
 { Carbonate of lime.
 { Hydrochloric Acid.

Serum Alb.
 { Globulin
 { Myosin
 { Casein

Albumenins }
 { Palmitine
 { Stearin
 { Olein

Organic.
Inorganic { Fat { Fat
 { $Protein$ { $Protein$
 { $Glycogen$
 { Glucose
 { Lactose

Zoology.

Physiology:- treats of the properties & action
of the body of the use or function of its
parts, and of the manner of their workings.

Anatomy - treats of the form and structure of
the parts of the body and connects
organs and parts of organs.

Histology - treats of the minute structure of the
parts of the body deals with cells &
tissues.

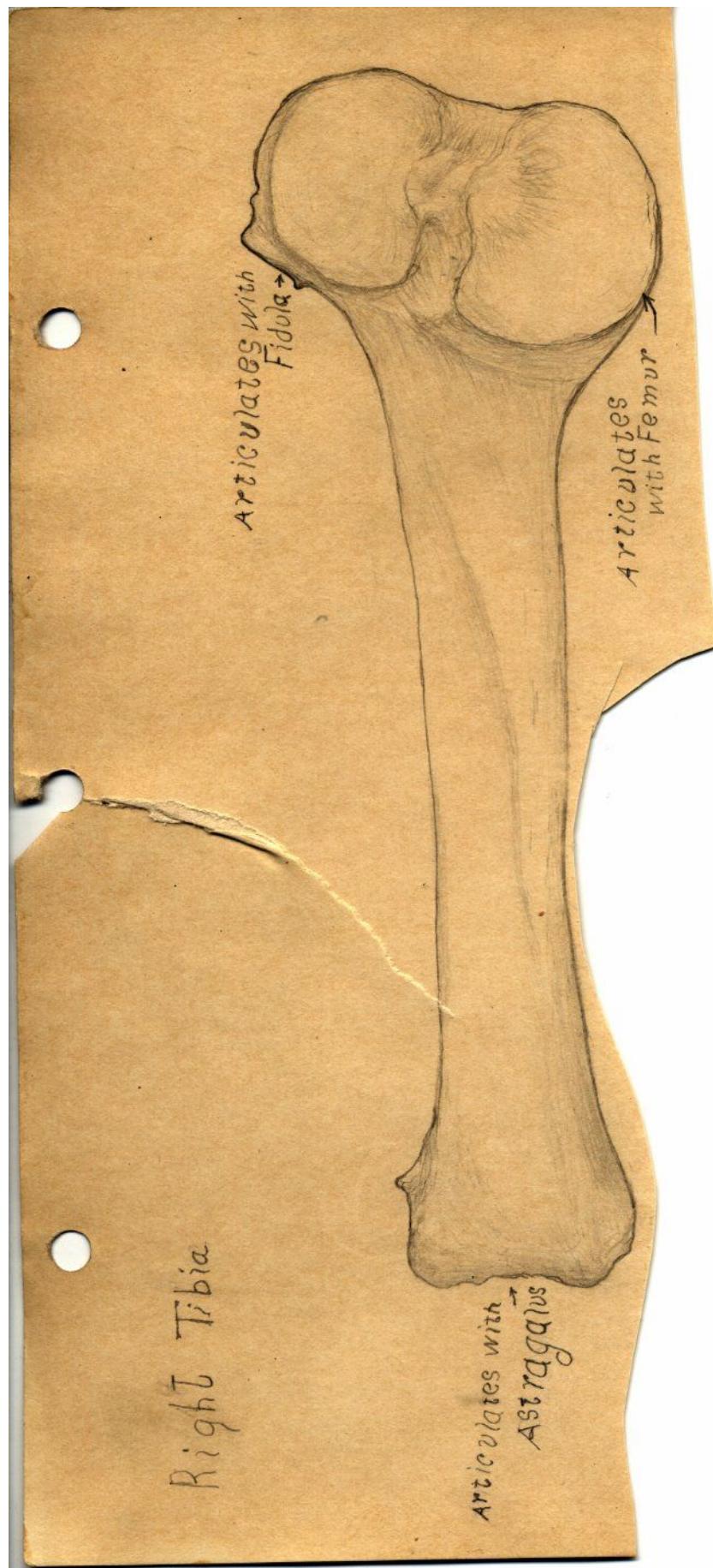
Hygiene - treats of the body in health and
of the condition which promotes health.

Cell. A cell is a mass of protoplasm containing nucleus.

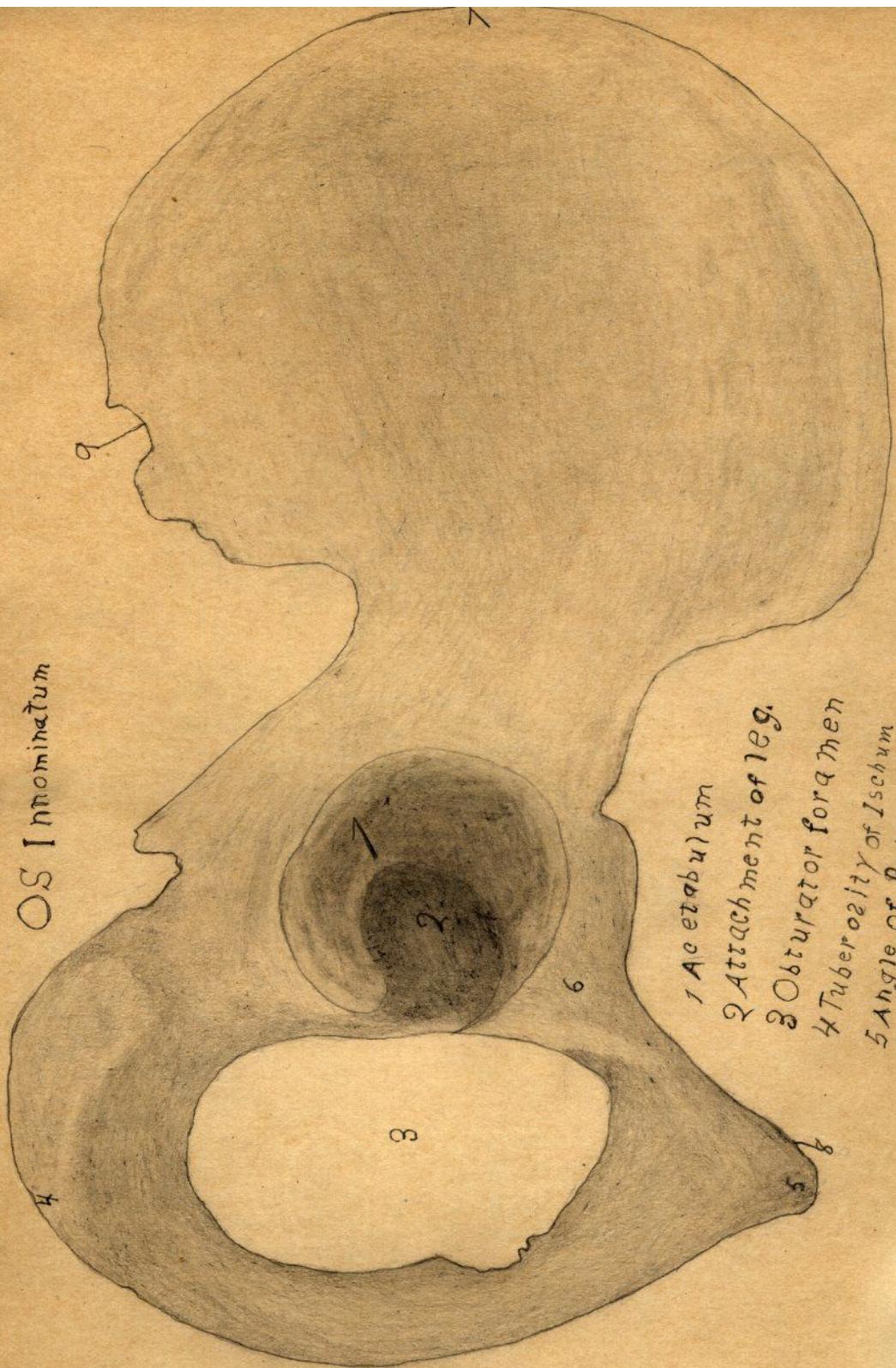
Cells make tissues, tissues make organs. Organs make body.

Man is a vertebrate animal, because his body presents dorsal and ventral cavities separated from one another by a hard partition, the back bone.

Man belongs to that subdivision of vertebrates known as Primaria (1) because his body is covered by hair (2) because of the presence of mammary glands (3) because the ventral cavity is completely separated by the diaphragm into thorax and abdomen.

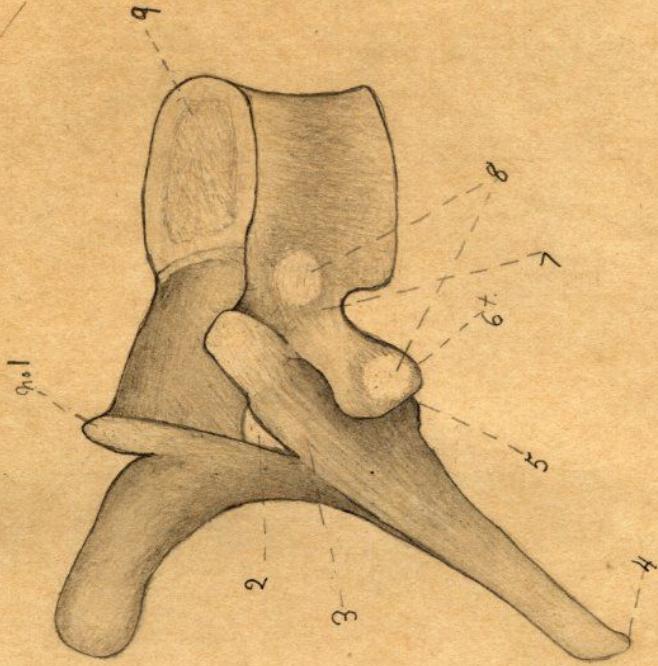


Ost. Innominatum



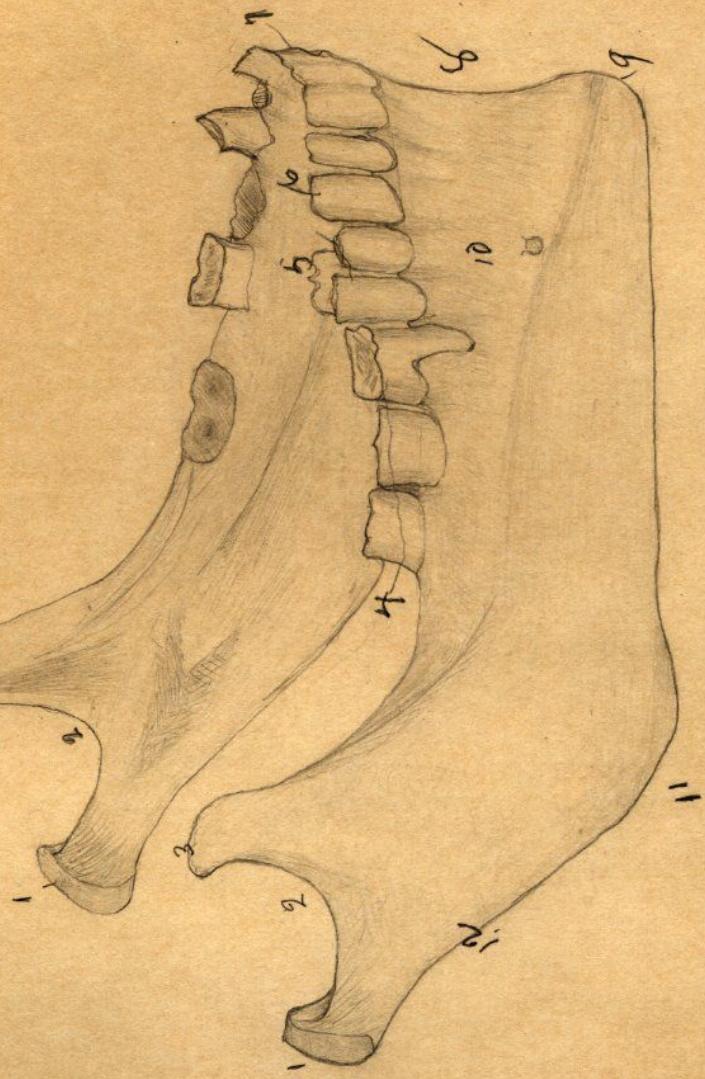
1 Acetabulum
2 Attachment of Lig.
3 Obturator foramen
4 Tuberosity of Ischium
5 Angle or Pubes
6 Body or pubes
7 Crest of Ilium
8 Articular surface of Sacroiliac joint

Fifth Dorsal vertebra



- 1 Ant Articular Process
- 2 Neural Canal
- 3 Neural Arch
- 4 Spinous Process
- 5 Posterior Art Process
- 6 Transverse Process
- 7 Stalk or Pedicle
- 8 Rib Articulations
- 9 Centrum on body

Mandible.



1. Condyle
2. Sigmoid Process

3. Coronoid

4. Molars

5. Bicusped
canine

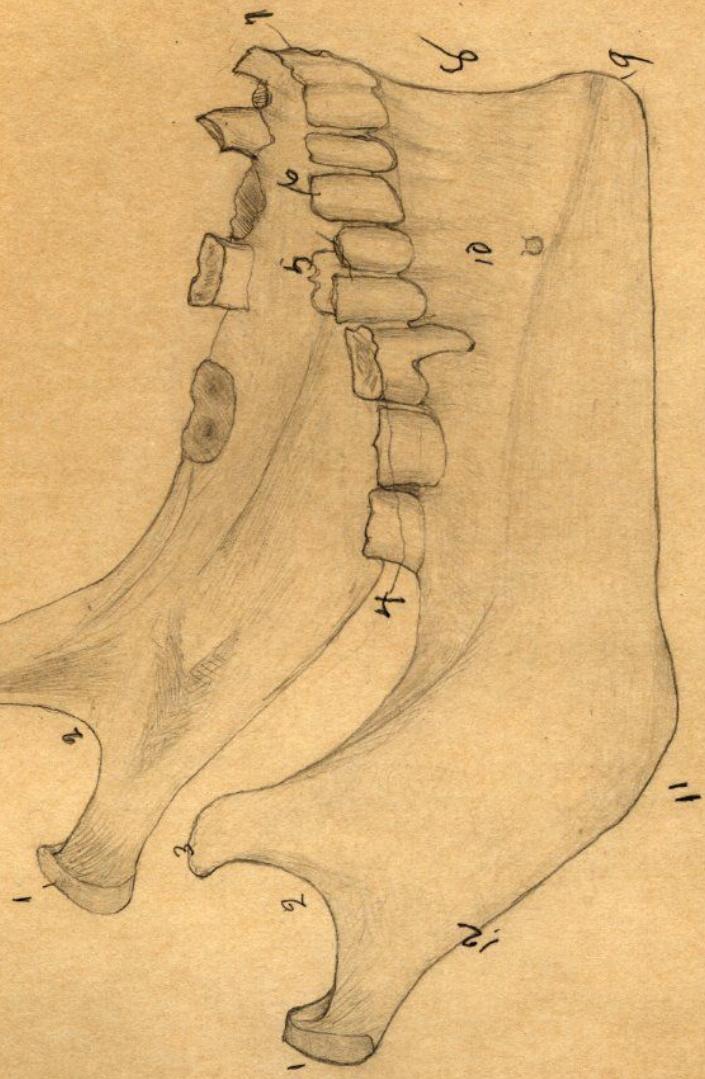
6. Incisor

7. Symphysis
8. Mental process

9. Body

10. Angle

Mandible.



1. Condyle
2. Sigmoid Process

3. Coronoid

4. Molars

5. Bicusped
canine

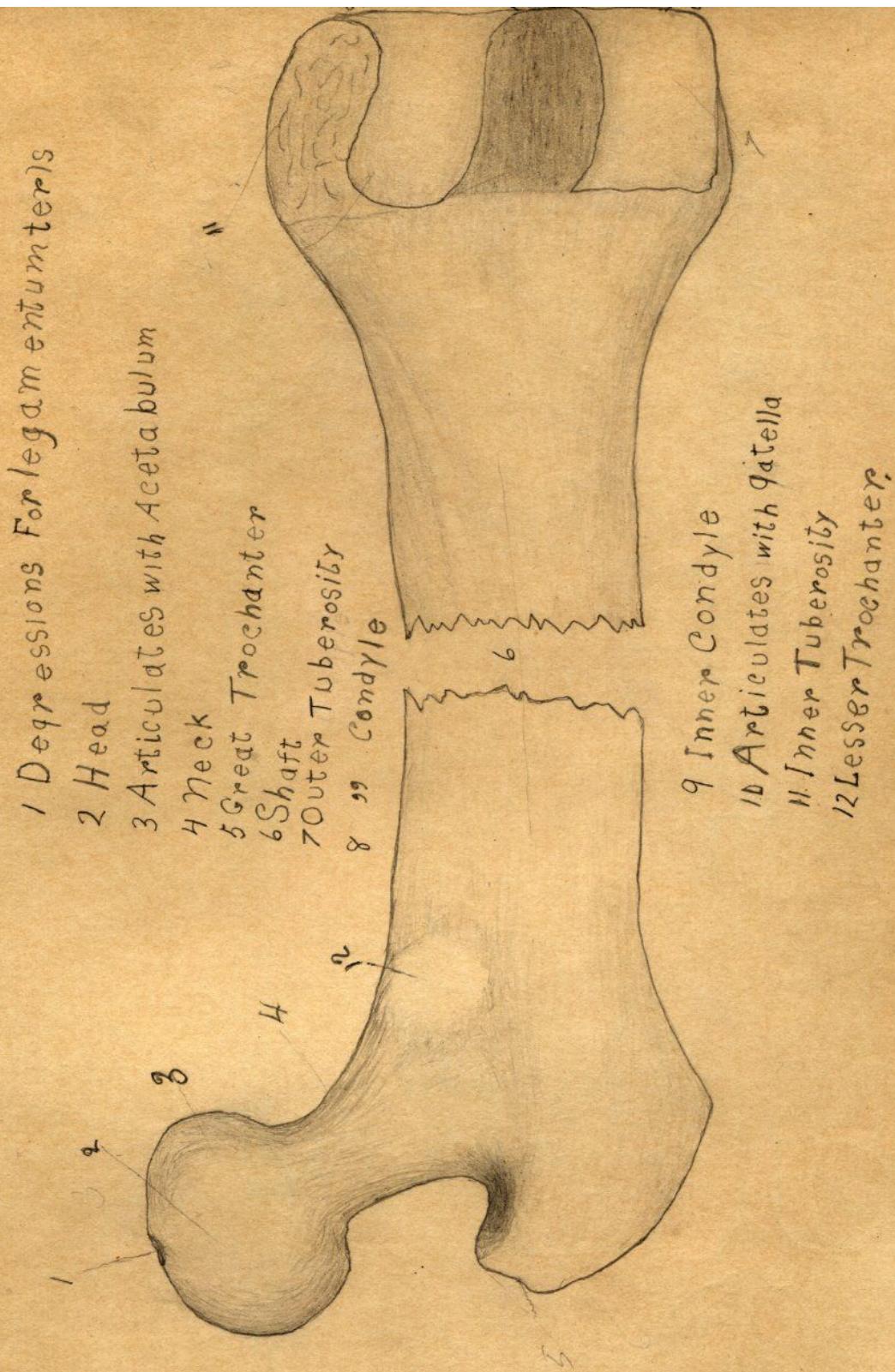
6. Incisor

7. Symphysis
8. Mental process

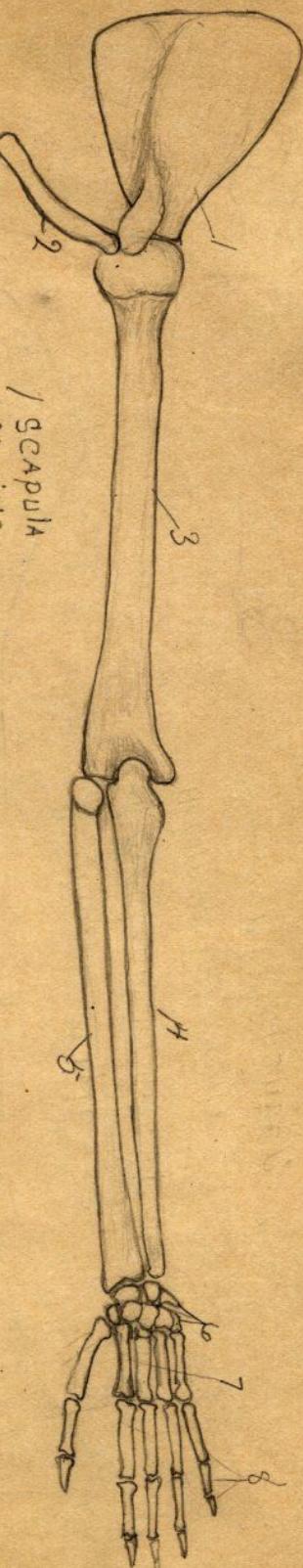
9. Body

10. Angle

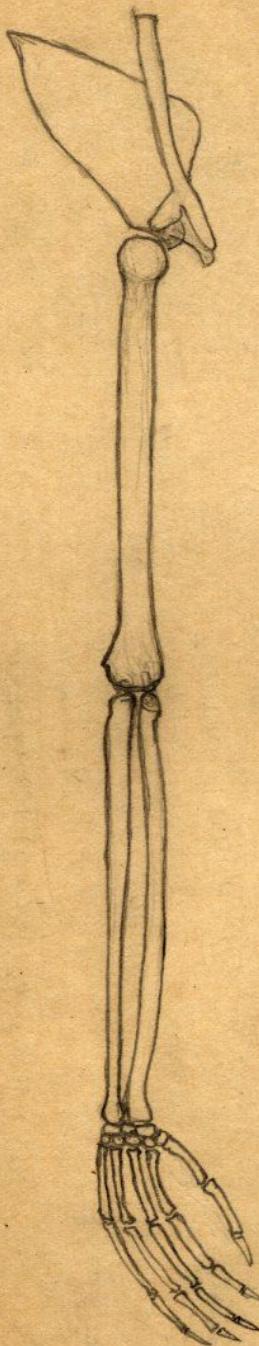
Femur



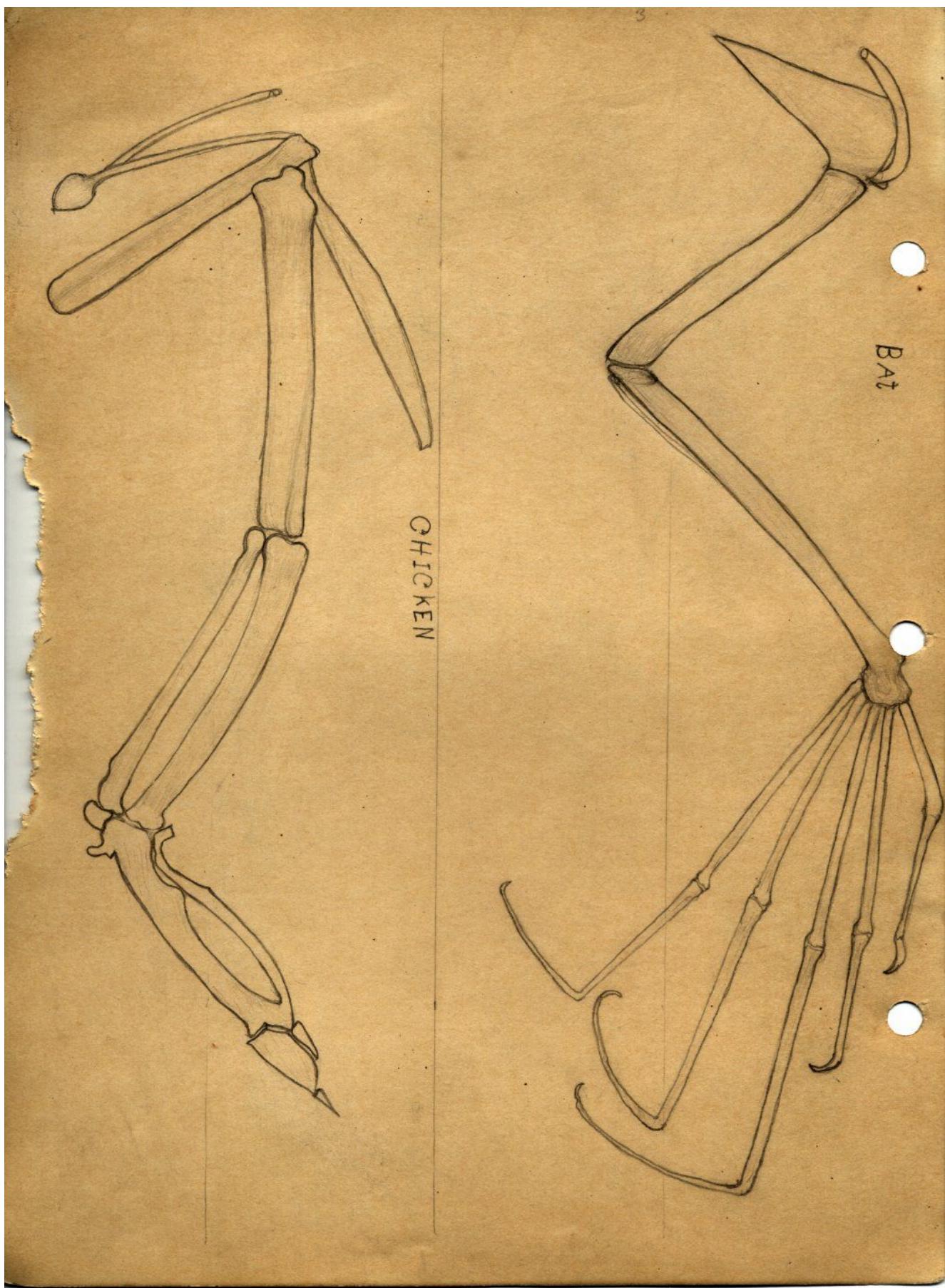
MAN

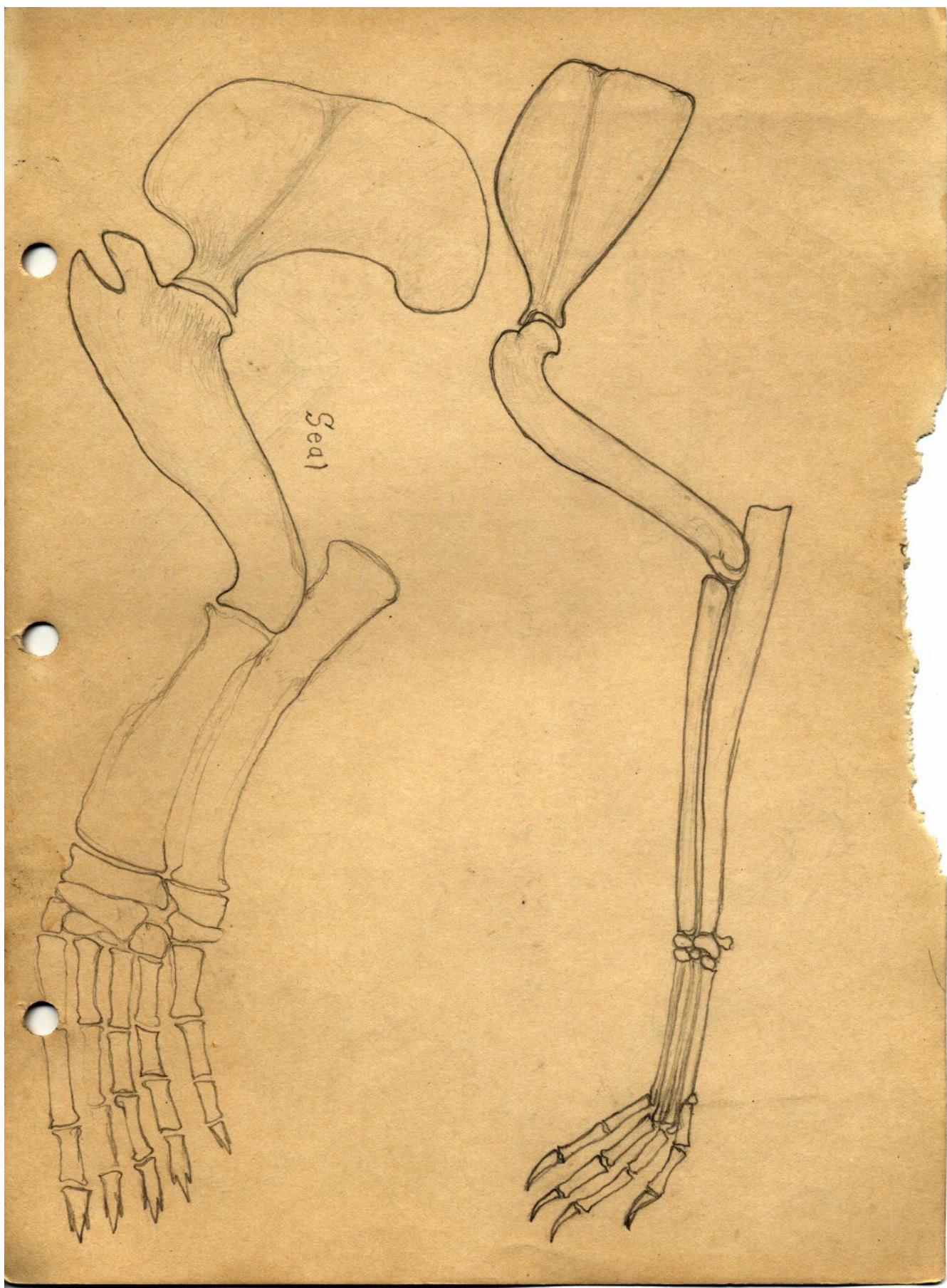


MONKEY



Monkey 2

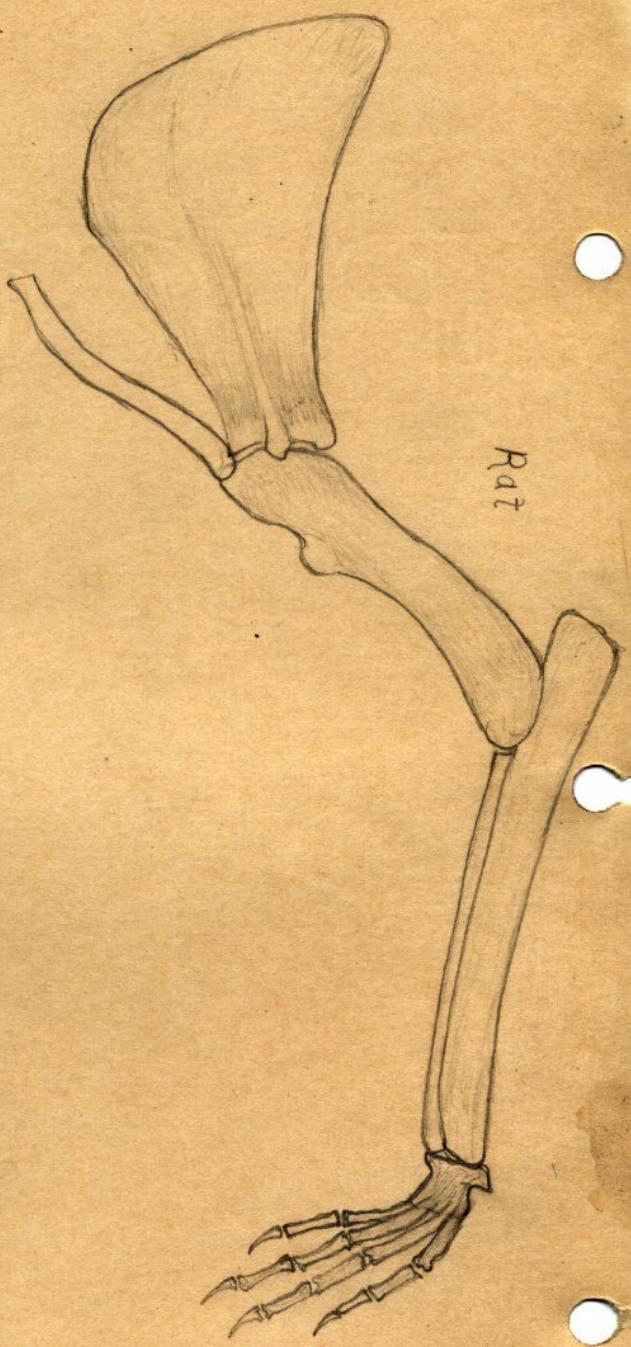




Seal



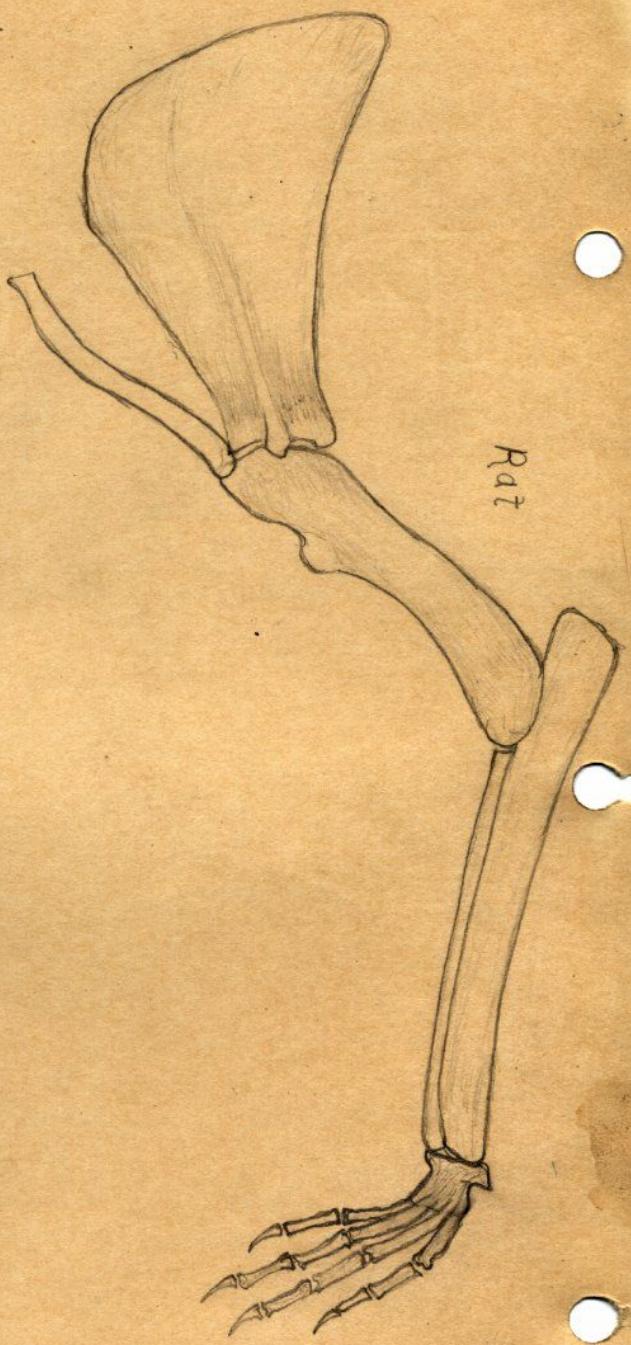
Cow



Rat



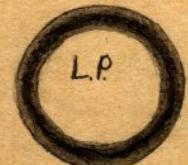
Cow



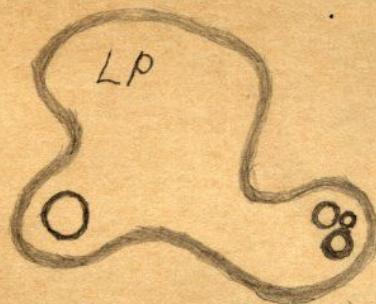
Rat

Air bubbles

L.P.



L.P



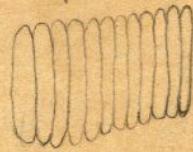
Cell



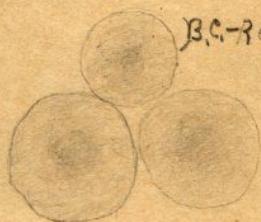
Cells



B.C. - Red



B.C.-Red flat.



B.C.-Light



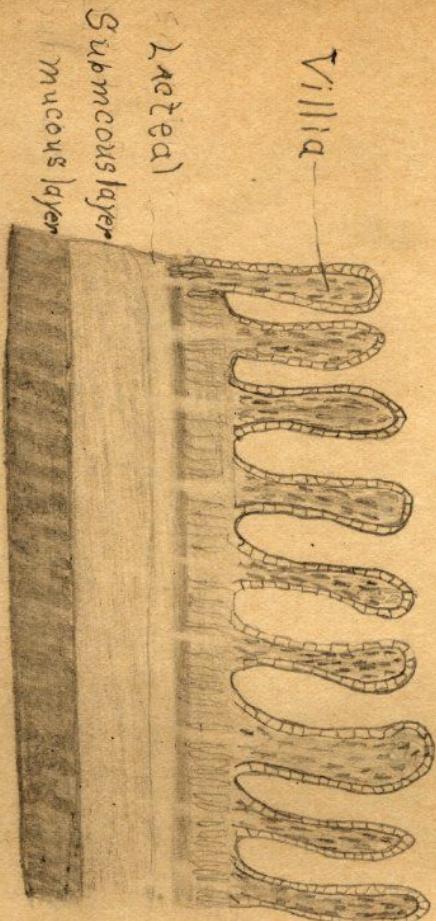
B.C. Light



Sec. of

Small Intestine
of wildcat

L.P.



Villi

(metea)
Submucous layer
mucous layer

H.P.

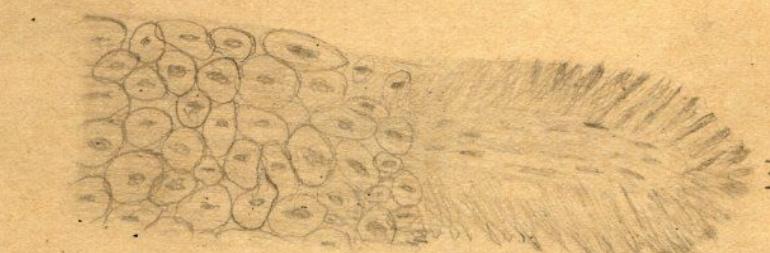
Sec. of stomach

L.P.

Pores of mucus

mucous coat

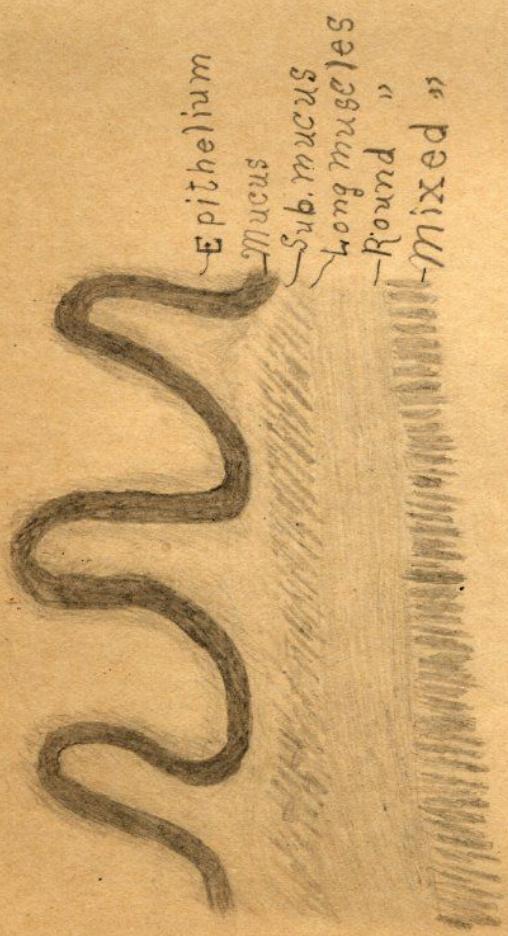
sub. muc.



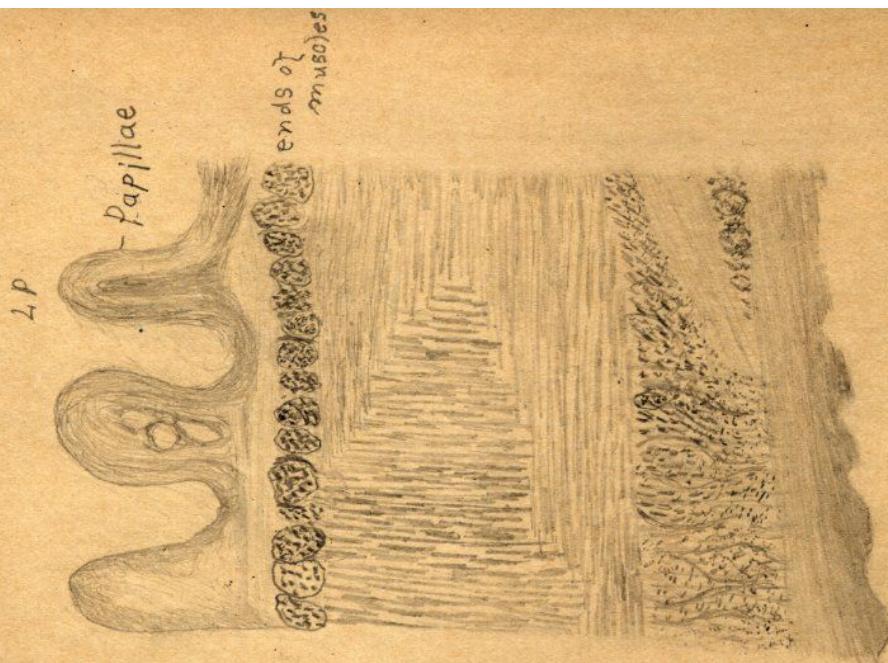
mucous
coat

L.P.

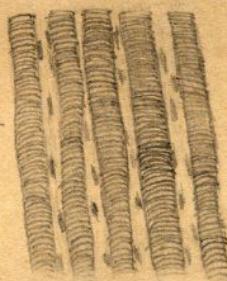
Sec. of Oesophagus
L.P.



Tongue



Tongue A.P.



Striated muscles

Cross Section of Spinal Cord

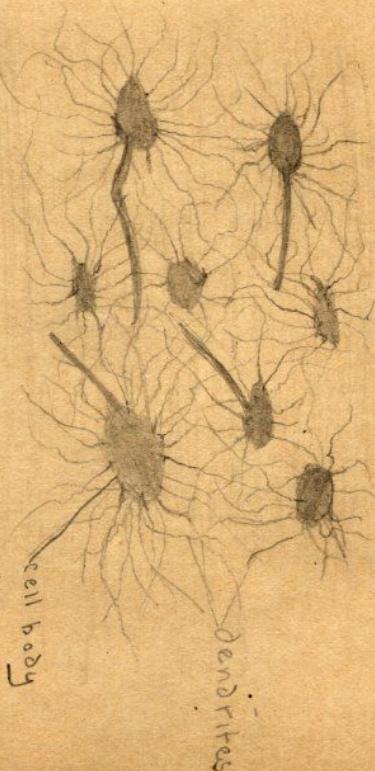
H.P. Nerve Cells of Brain

Gray Matter

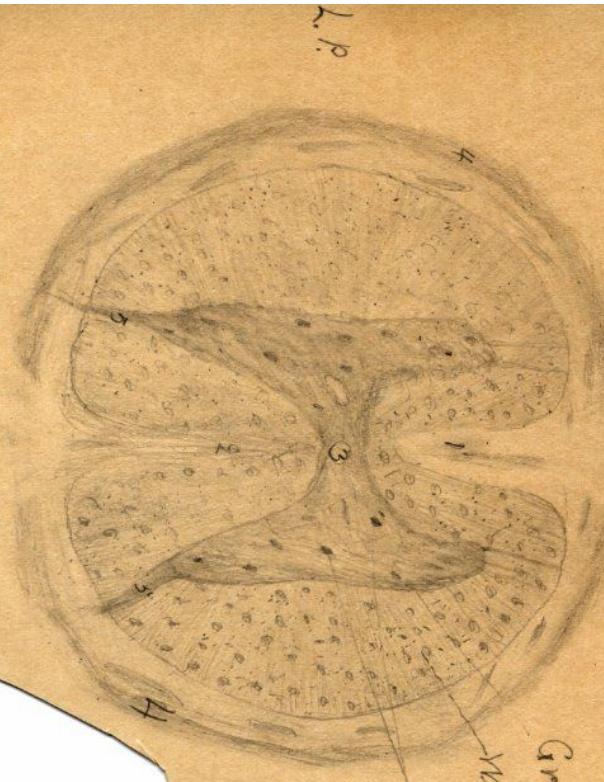
White "

Nerve Cells

L.P.



- 1 Anterior Tissue
- 2 Posterior "
- 3 Central canal
- 4 Pia mater
- 5 Posterior Roots



Boone
Cross Section

