

ISTOLOGY

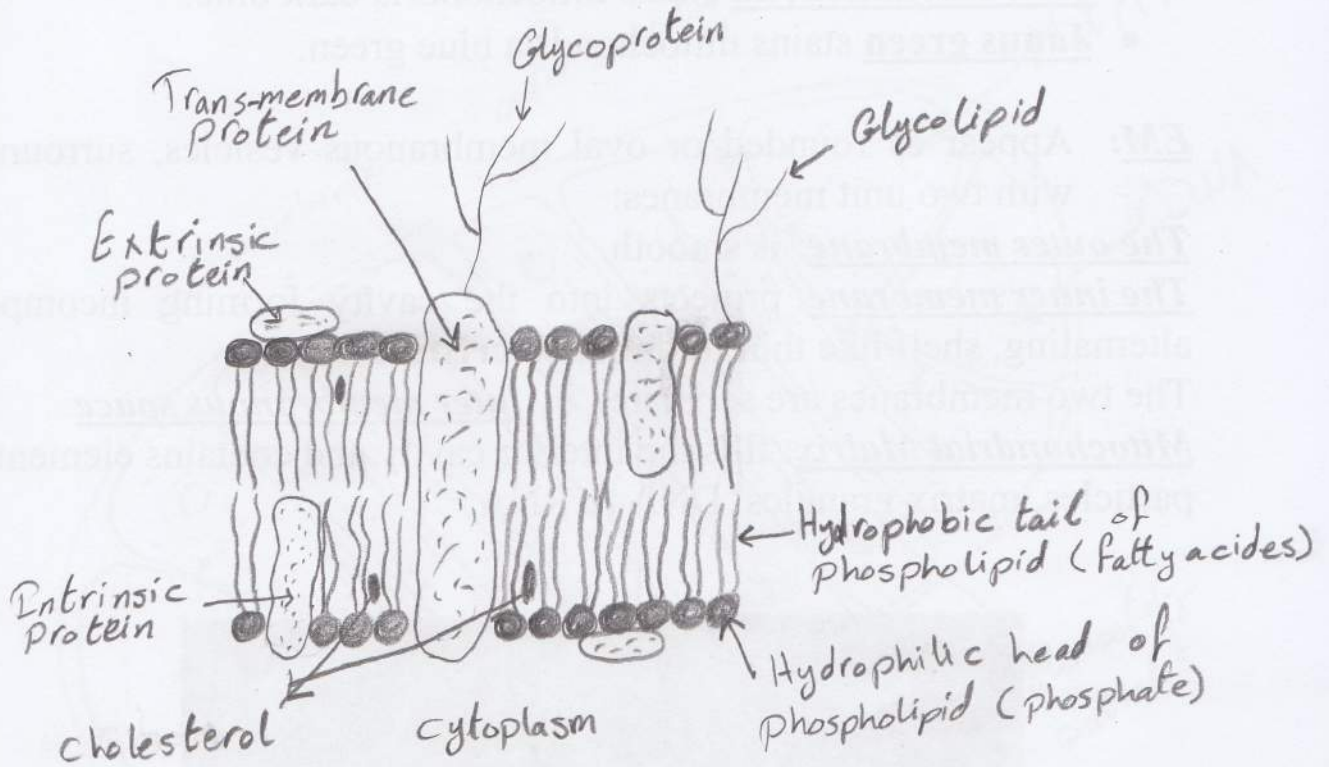
DEPARTMENT KASR AL AINY

PRACTICAL WORKBOOK

FOR

First Year Medical Students

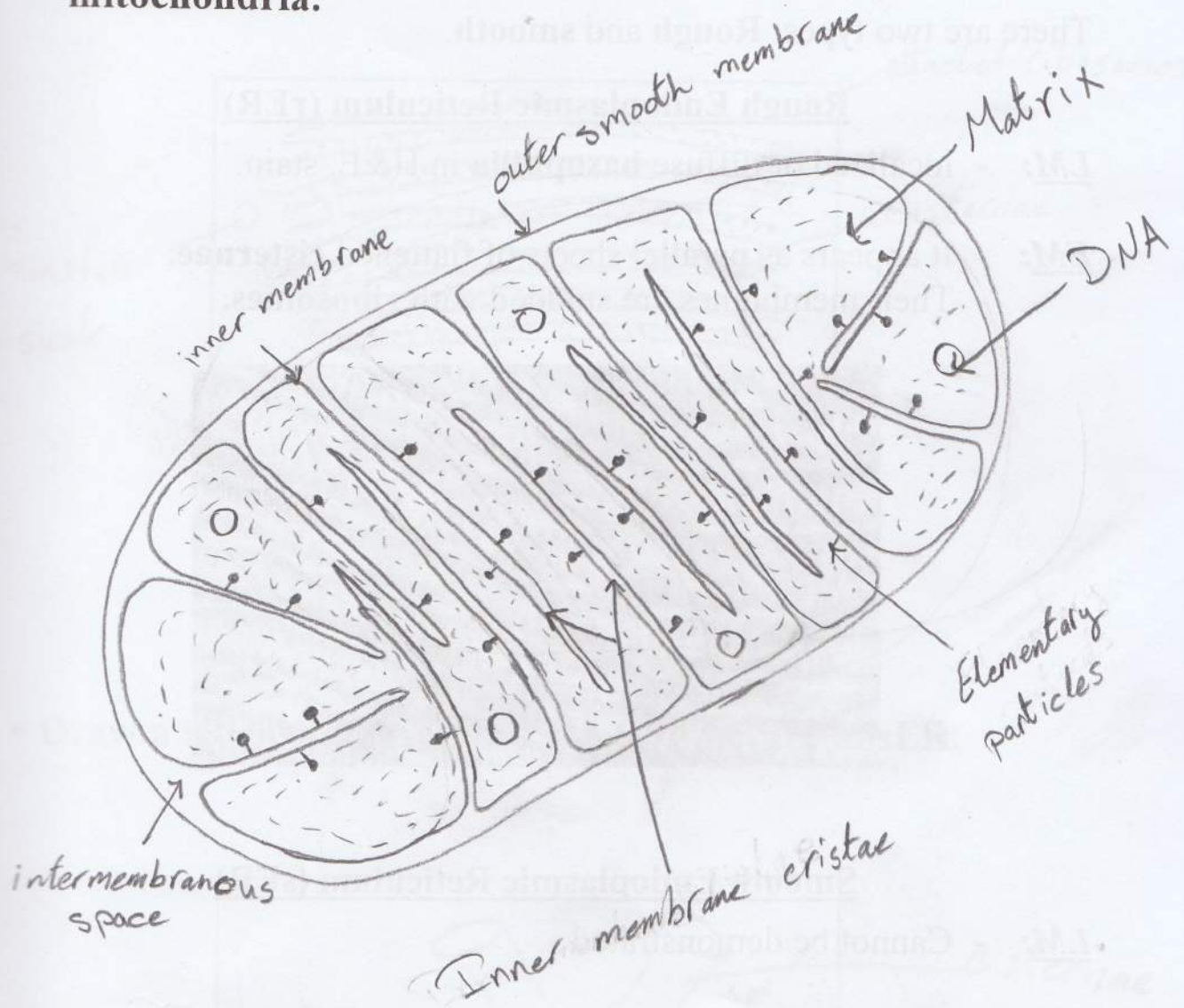
- Draw a labeled diagram for the molecular structure of the cell membrane.



6-11-2014

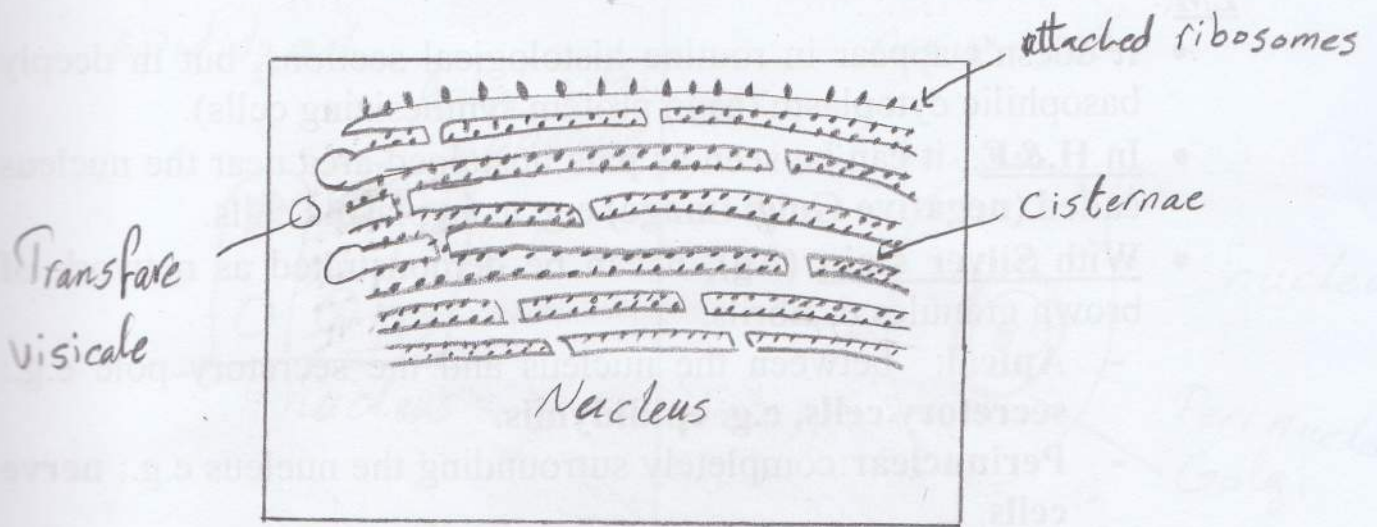
Mai

- Draw a labeled diagram for the EM picture of mitochondria.

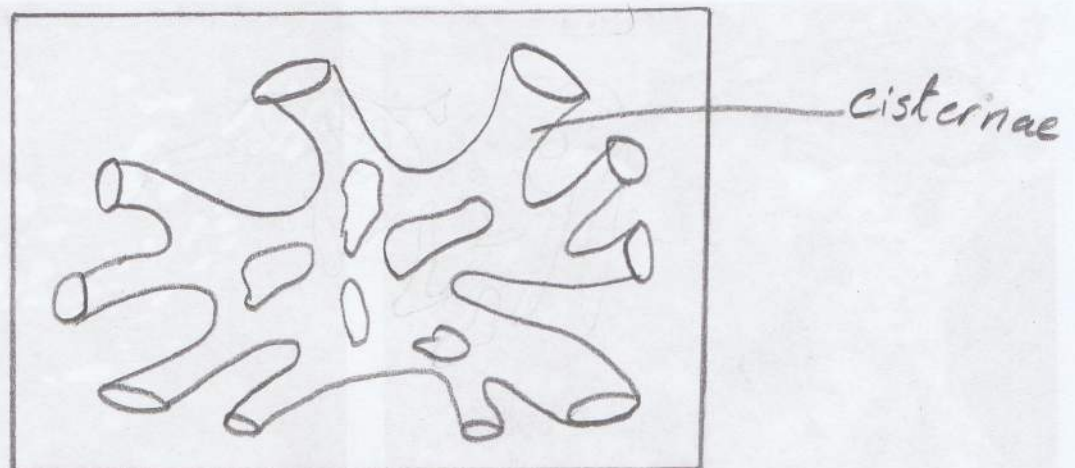


6-11-2014
Mon.

- Draw a labeled diagram for the EM picture of rER.



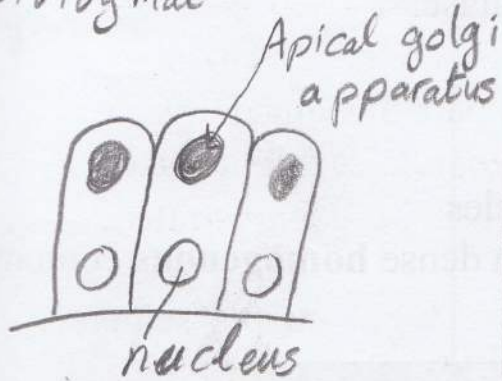
- Draw a labeled diagram for the EM picture of sER.



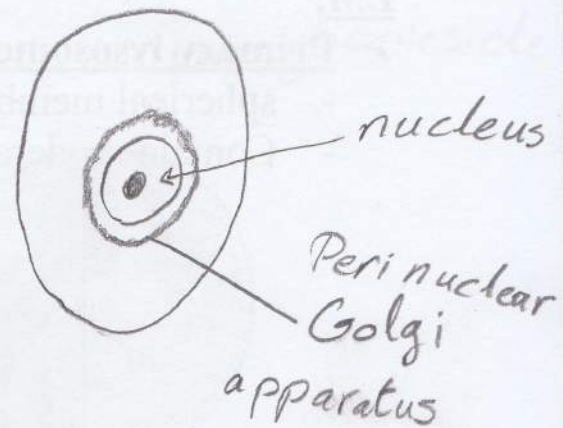
✓ 6-11-2014
Mo

- Draw a colored diagram for Golgi apparatus in epididymal and nerve cells.

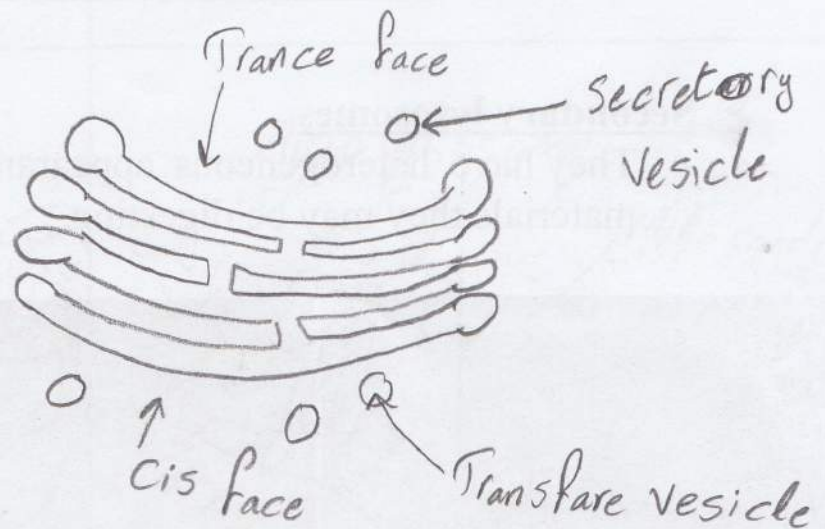
epididymal



nerve cell



- Draw a labeled diagram for the EM picture of Golgi apparatus.



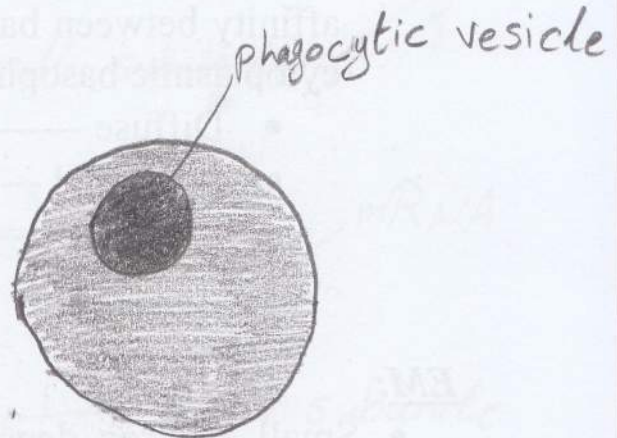
G- 11-2014
me

- Draw a labeled diagram for different types of lysosomes

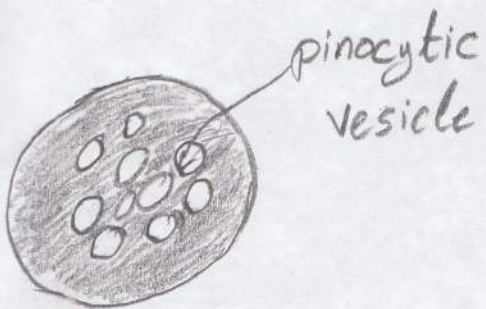
Primary lysosome



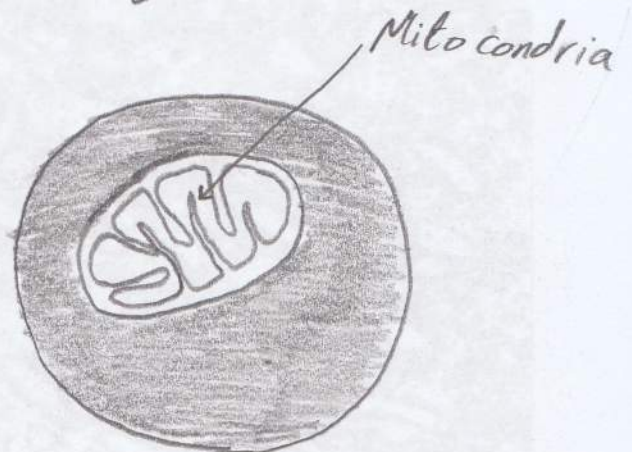
Hetero lysosome



Multivesicular body

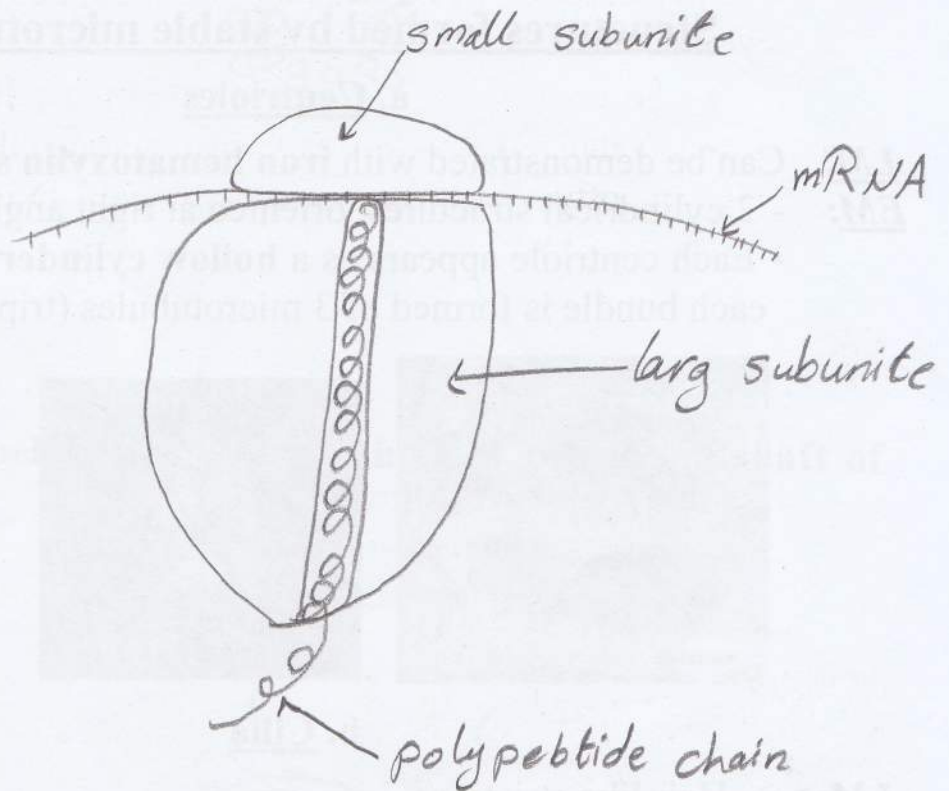


Autolysosome



13-11-2014
W

- Draw a labeled diagram for the EM picture of ribosomes.

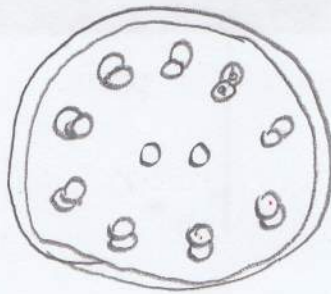


13-11-2014
mu

- Draw a labeled diagram for the EM picture of centrioles.



- Draw a labeled diagram for the EM picture of shaft of cilium.



13-11-2014
M

- Draw a labeled diagram demonstrating actin filaments in microvilli (T.S & L.S).

T.S

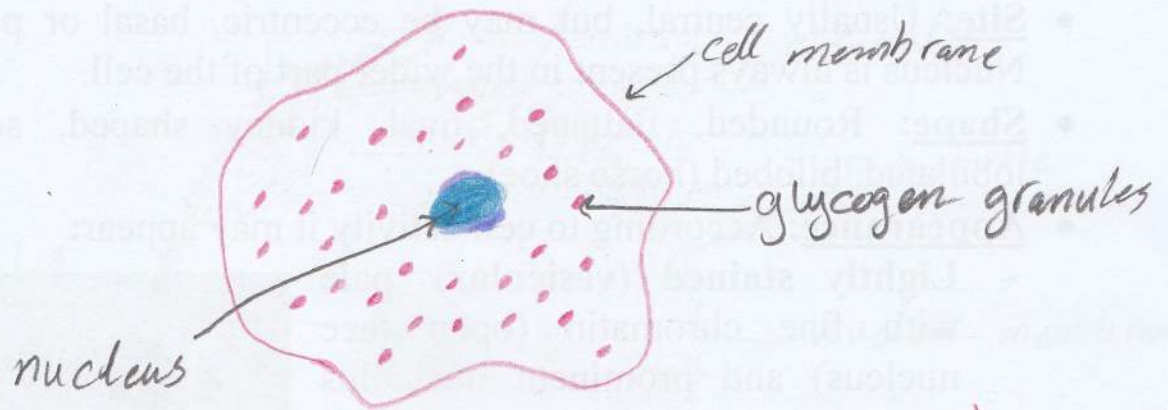


L.S

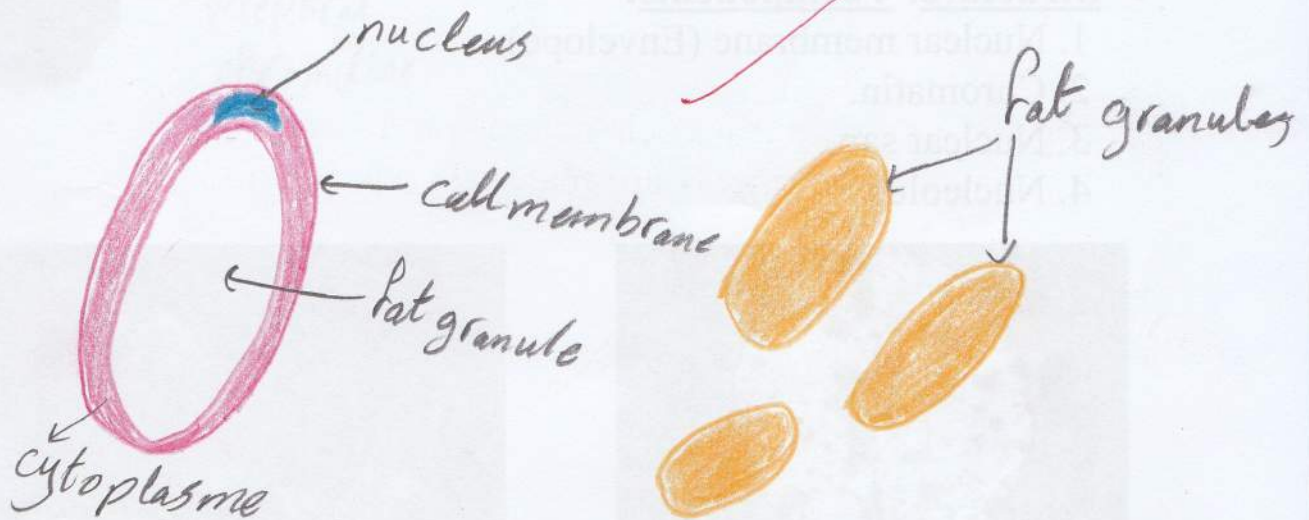


13-11-2014
M

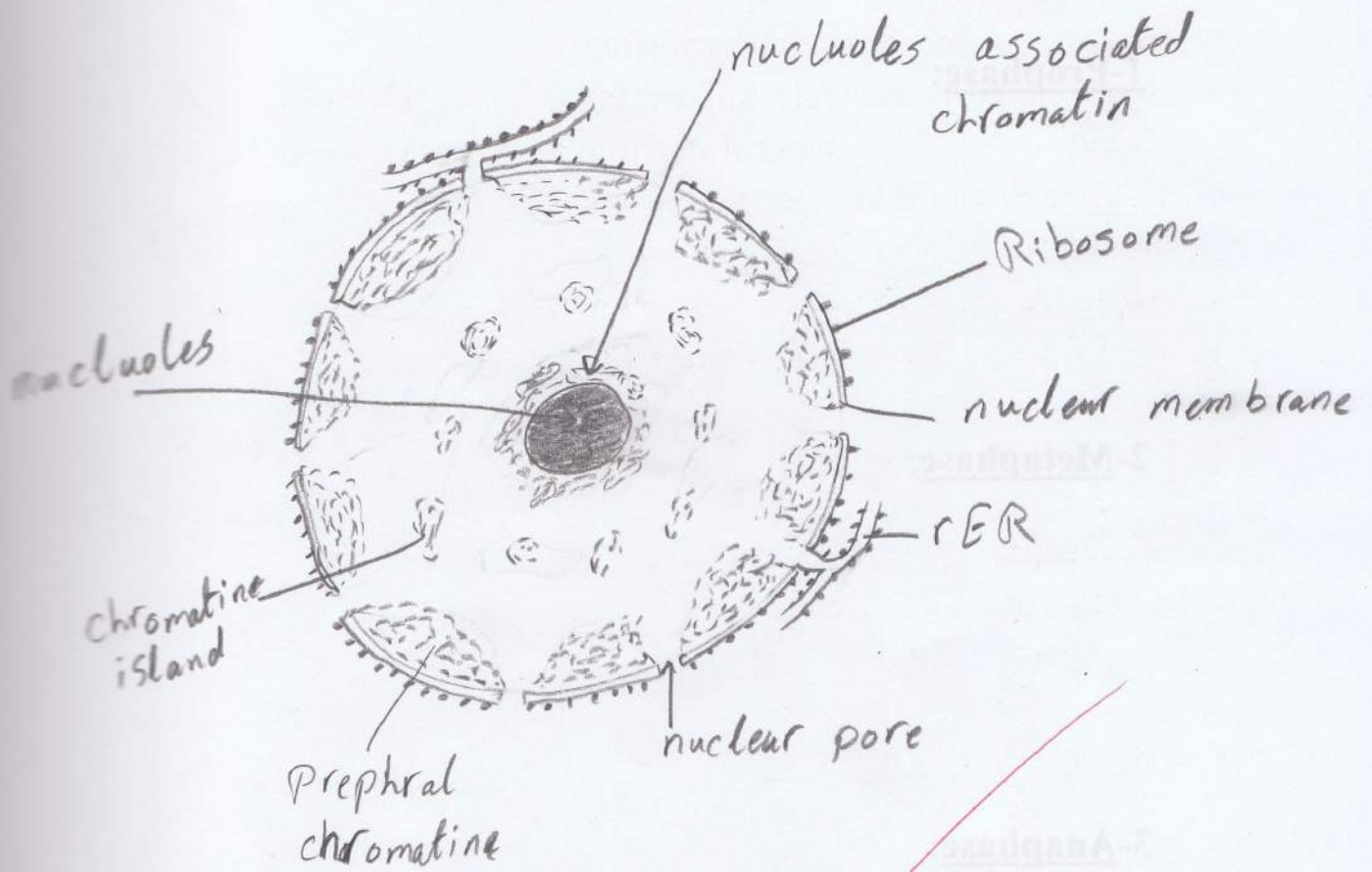
- Draw a colored diagram for glycogen in liver cells (Best's Carmine).



- Draw a colored diagram for fat in fat cells (Sudan III).



- Draw a labeled diagram for the structure of nucleus.



- Draw a colored diagram for different types of simple epithelium

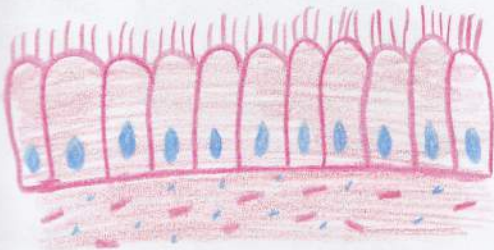
Simple squamous



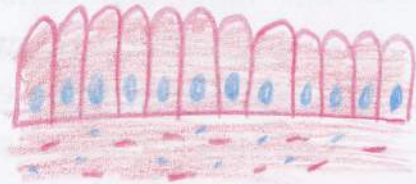
Simple cubical



Simple columnar (ciliated)



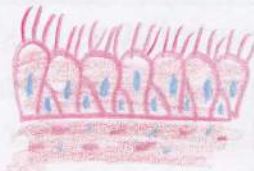
Simple columnar (non-ciliated)



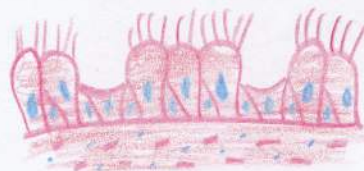
pseud stratified columnar (non-ciliated)



Pseudostratified columnar (ciliated)



pseud stratified columnar ciliated with goblet cells



• Draw a colored diagram for different types of stratified epithelium

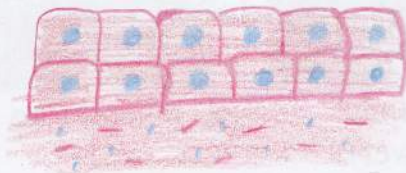
stratified squamous (non-keratinized)



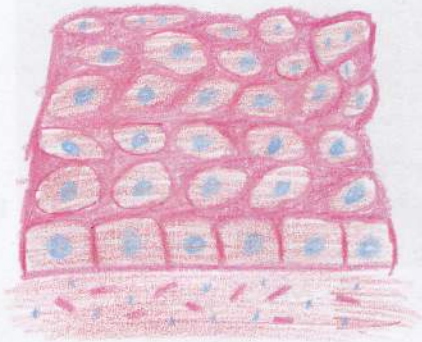
stratified squamous (keratinized)



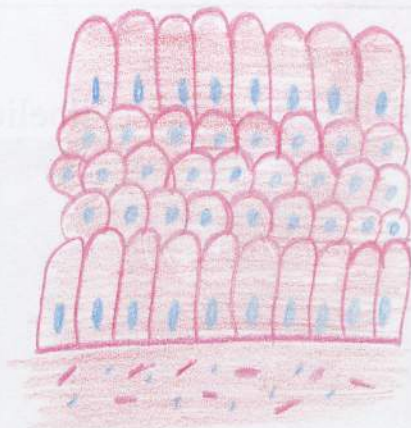
stratified cubical



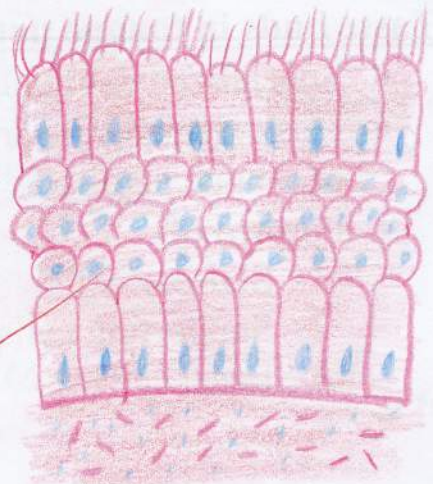
stratified cuboidal (Transitional)



stratified columnar (non-ciliated)



stratified columnar (ciliated)



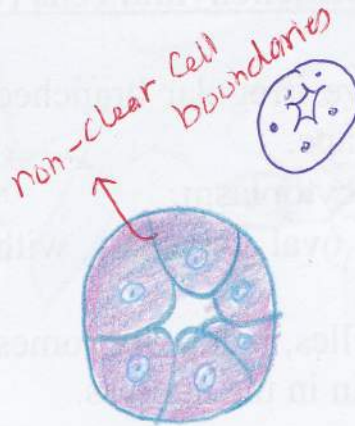
Noha
4/12

- Draw a colored diagram for different types of acini.

mucous acinus



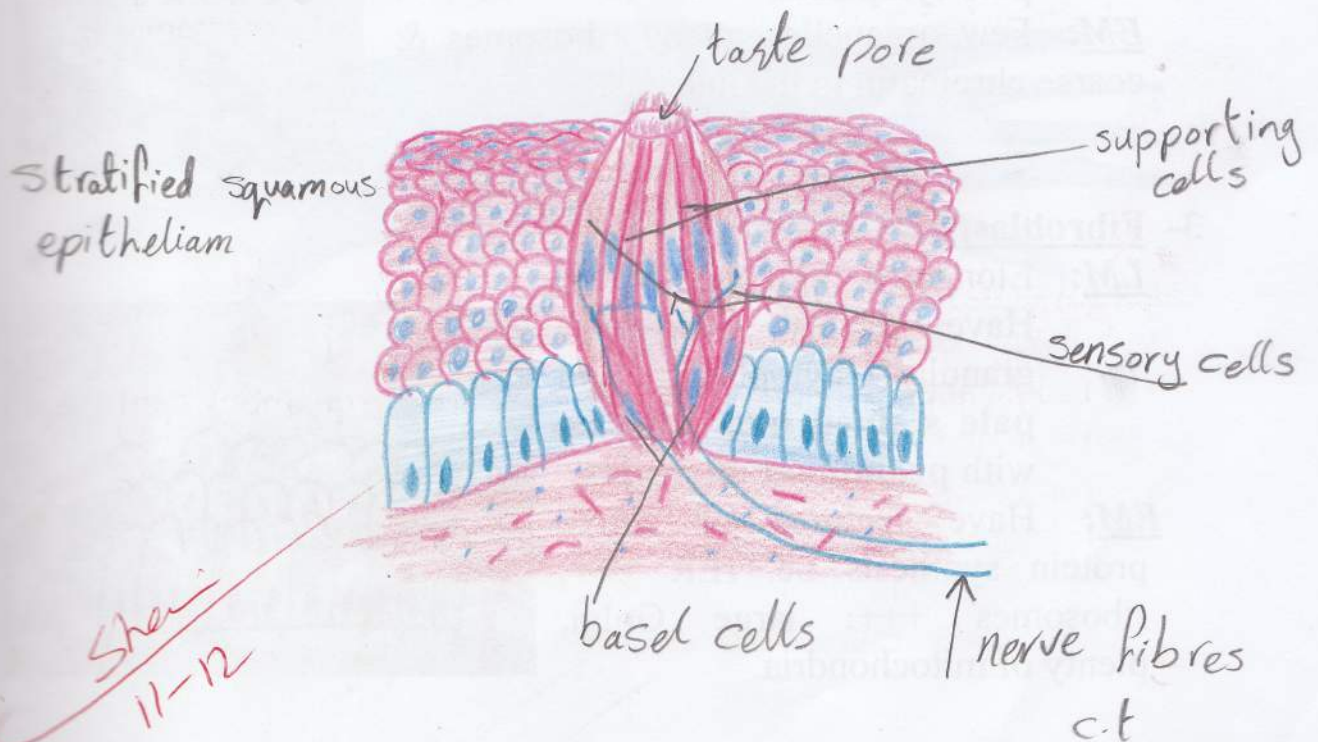
Serous acinus



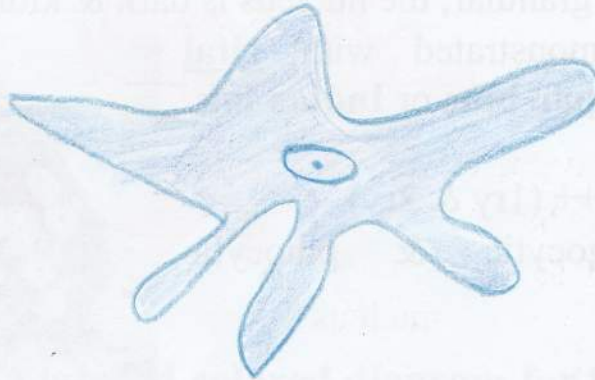
muco-serous acinus



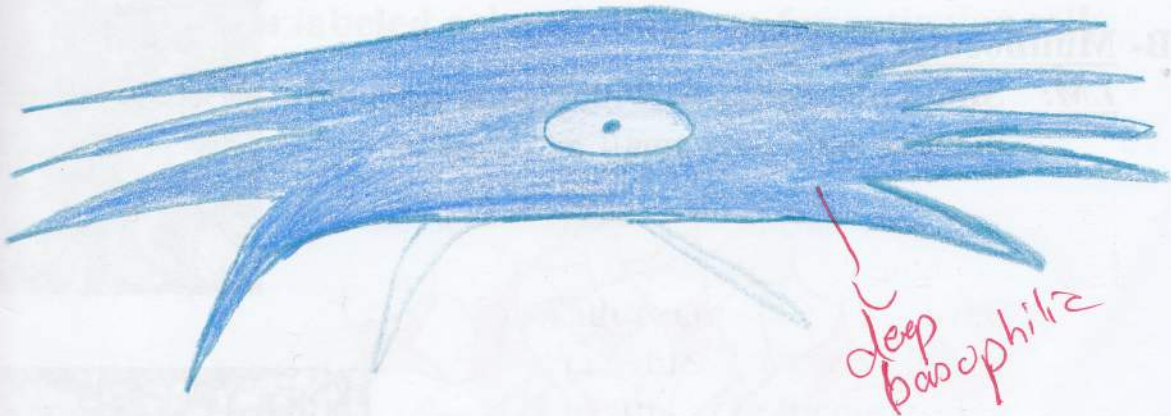
- Draw a labeled colored diagram for taste bud.



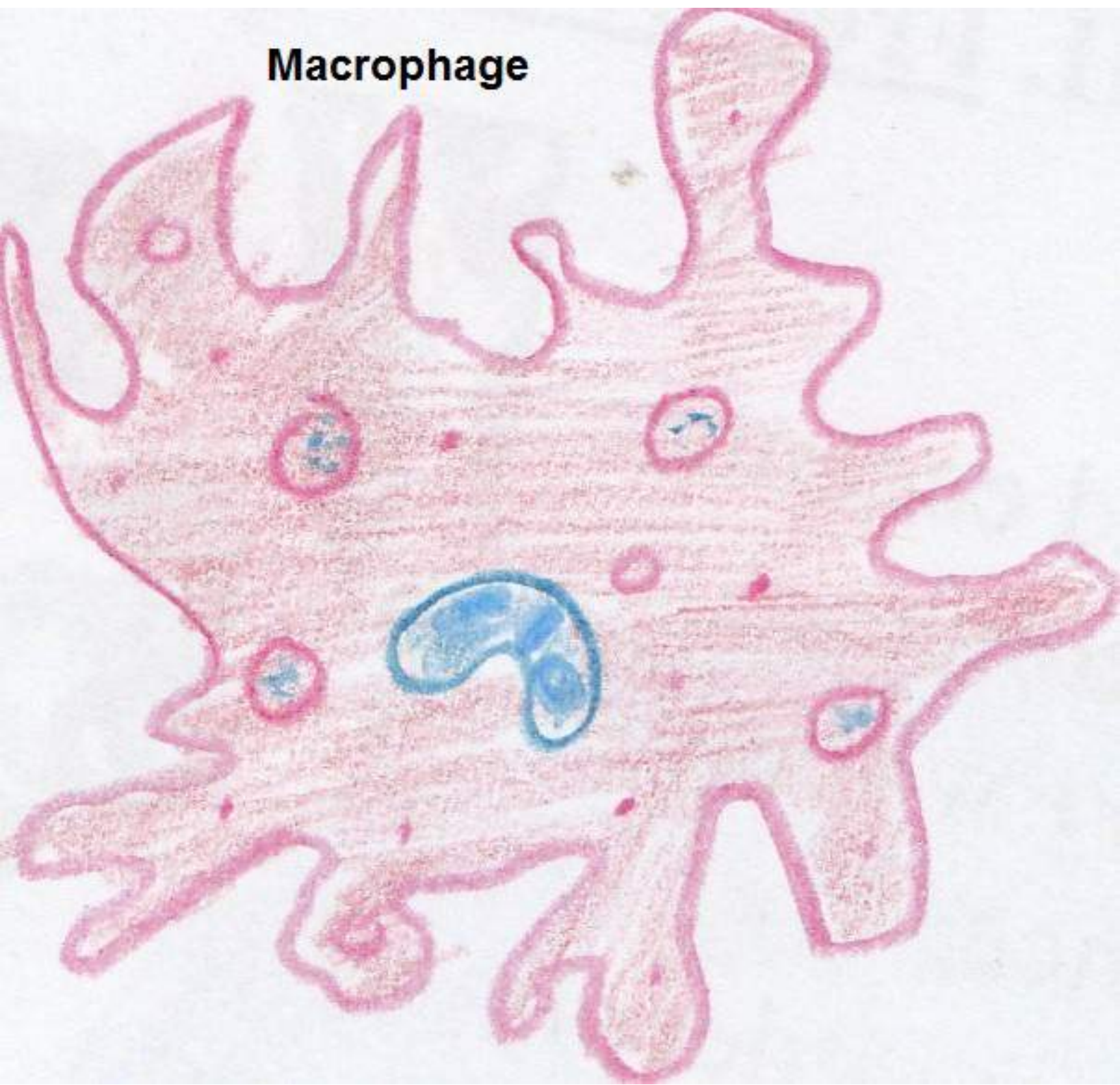
- Draw a labeled colored diagram for UMC



- Draw a labeled colored diagram for fibroblast



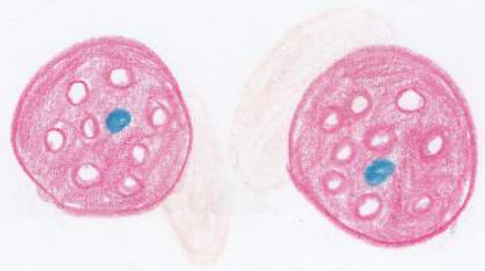
Macrophage



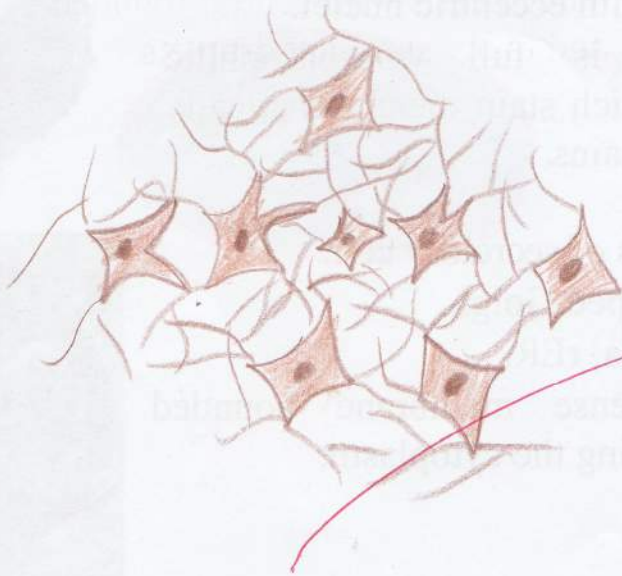
unilocular fat cell



Multilocular fat cell



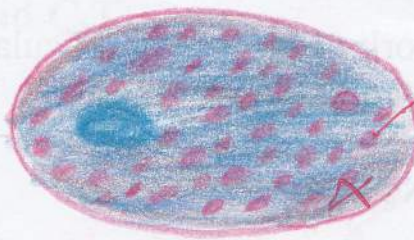
- Draw a labeled colored diagram for reticular cells



- Draw a labeled colored diagram for plasma cells.

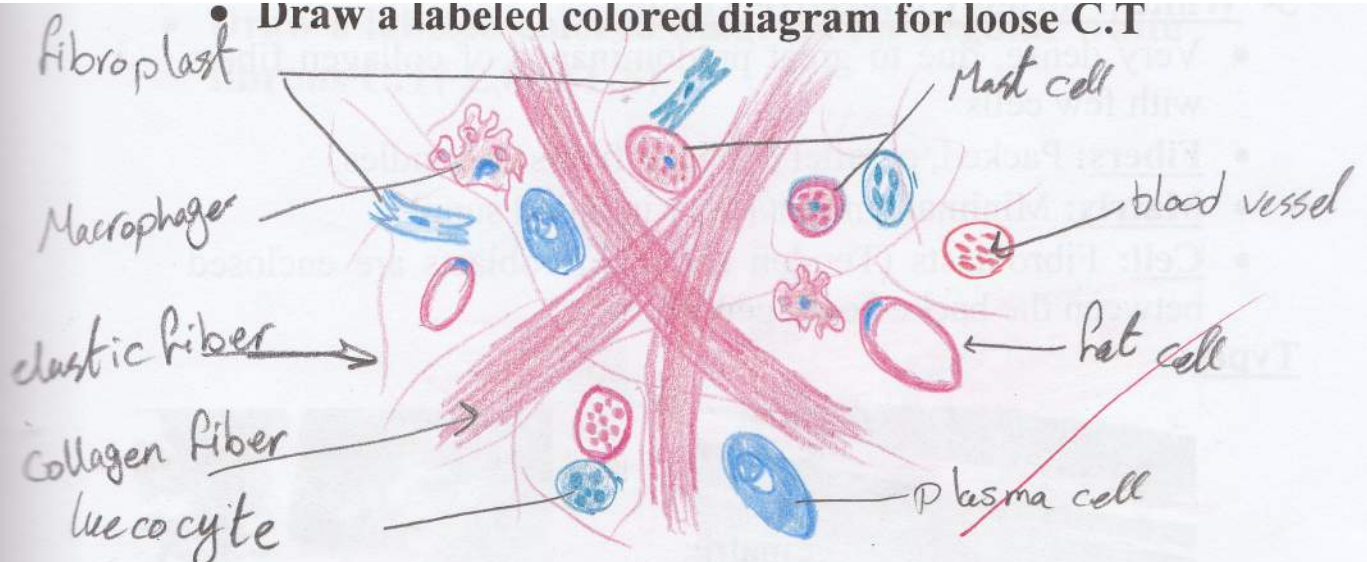


- Draw a labeled colored diagram for mast cells.

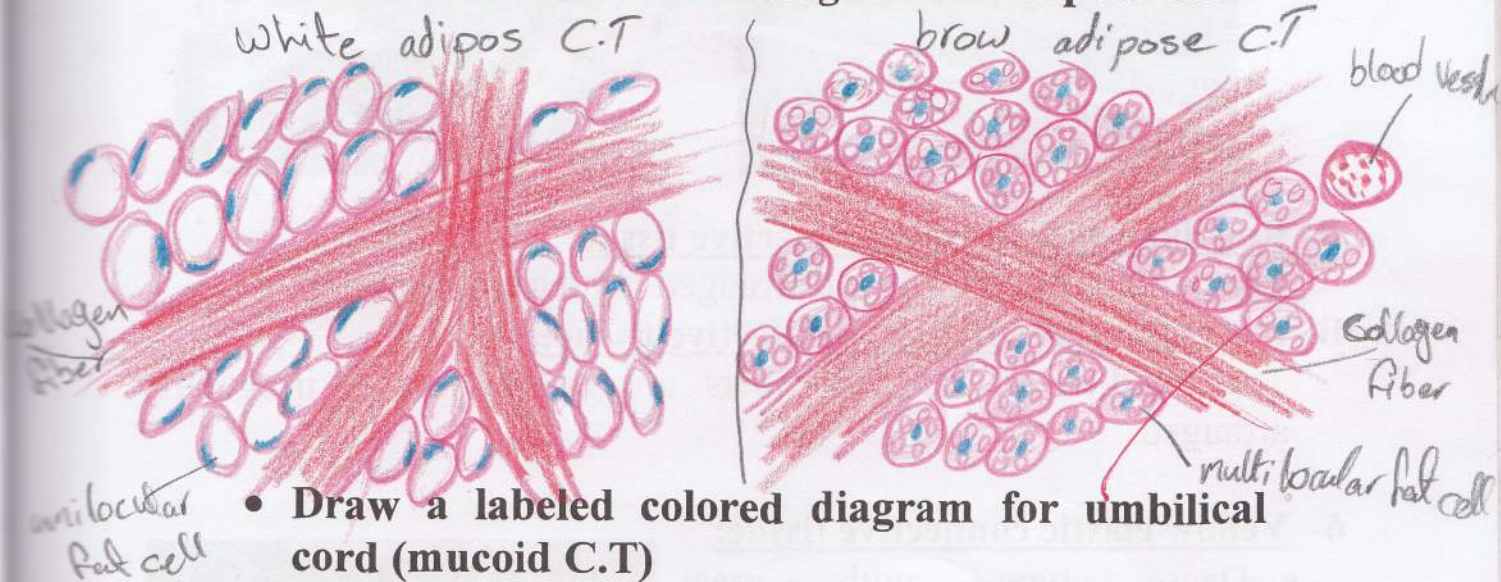


basophilic

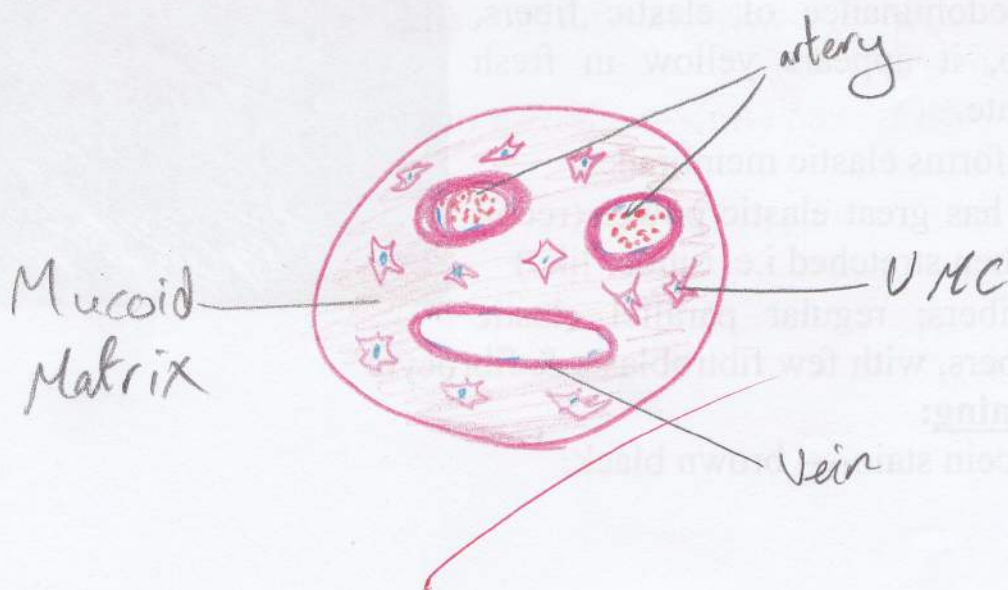
- Draw a labeled colored diagram for loose C.T



- Draw a labeled colored diagram for adipose C.T

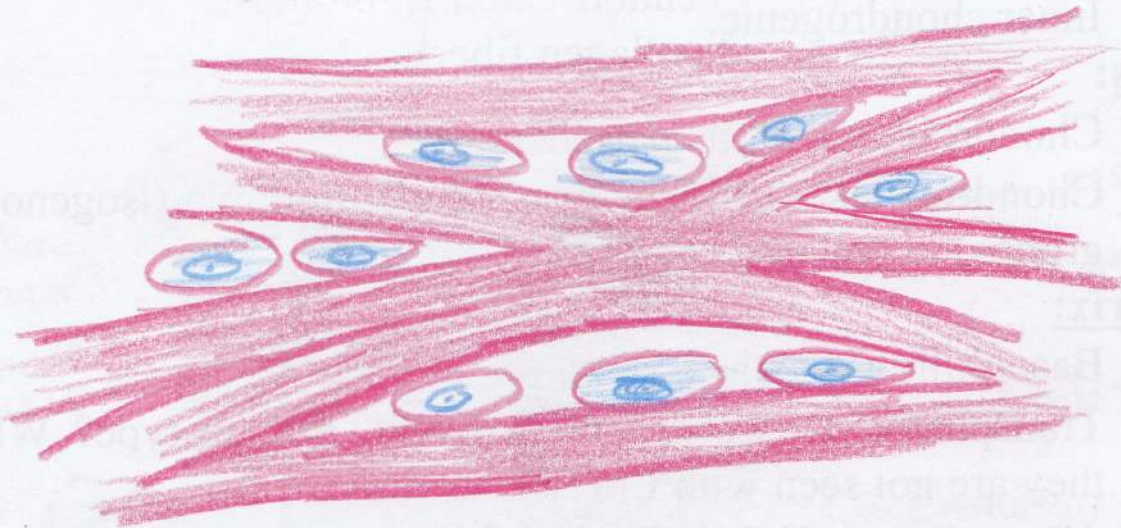


- Draw a labeled colored diagram for umbilical cord (mucoid C.T)



- Draw a labeled colored diagram for regular white fibrous C.T(L.S &T.S)

L.S

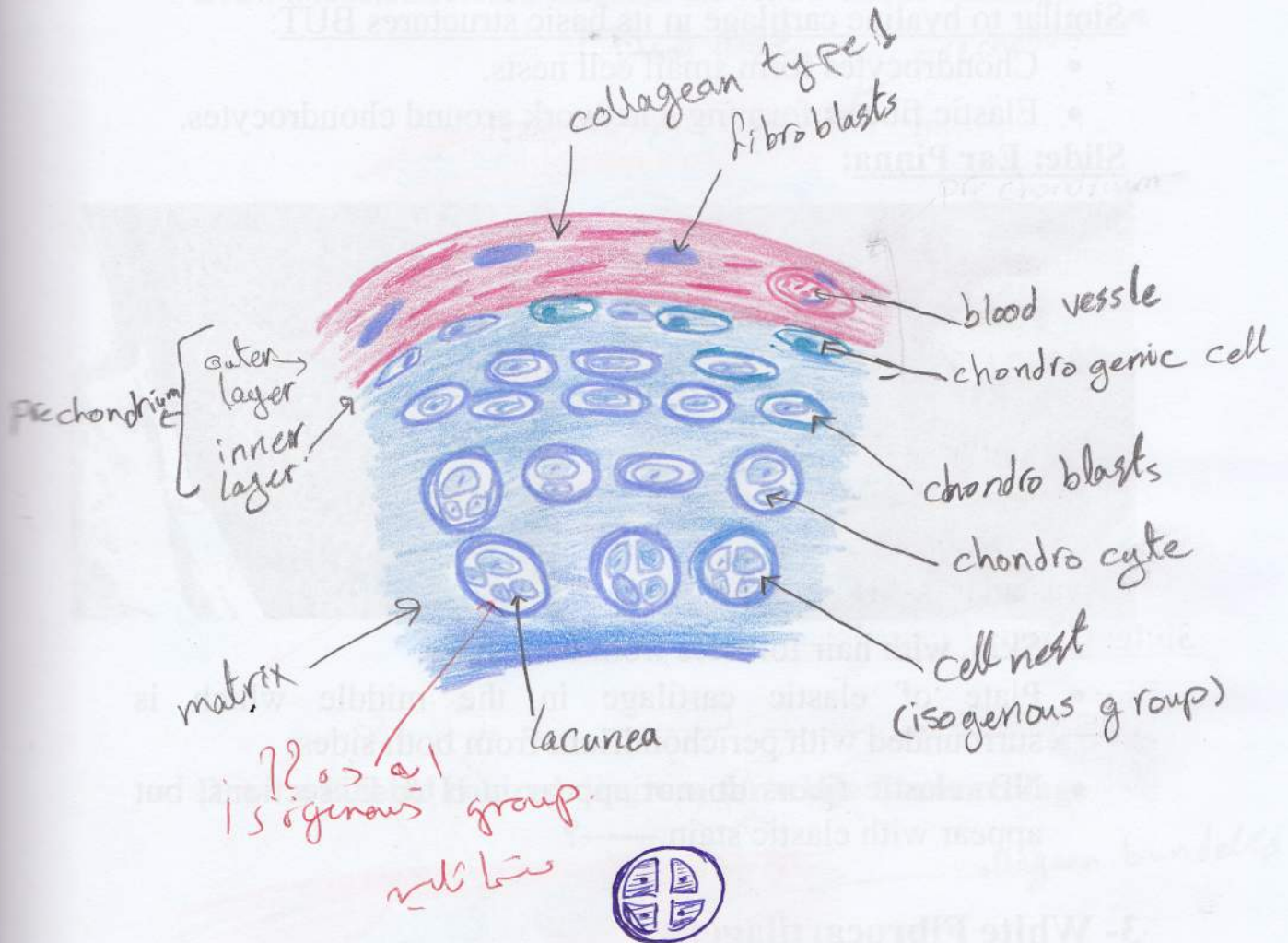


T.S

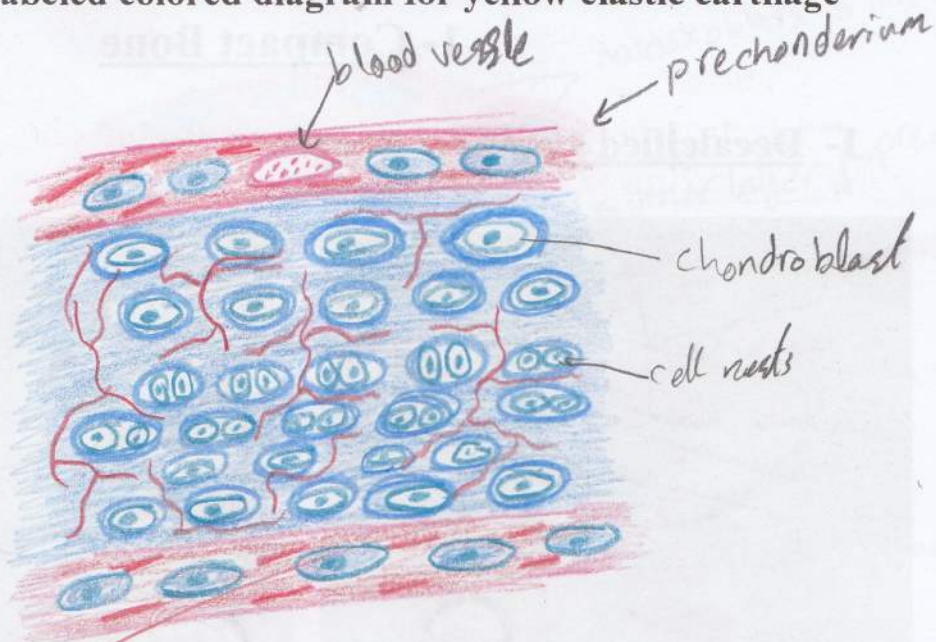


Waher.
18/12

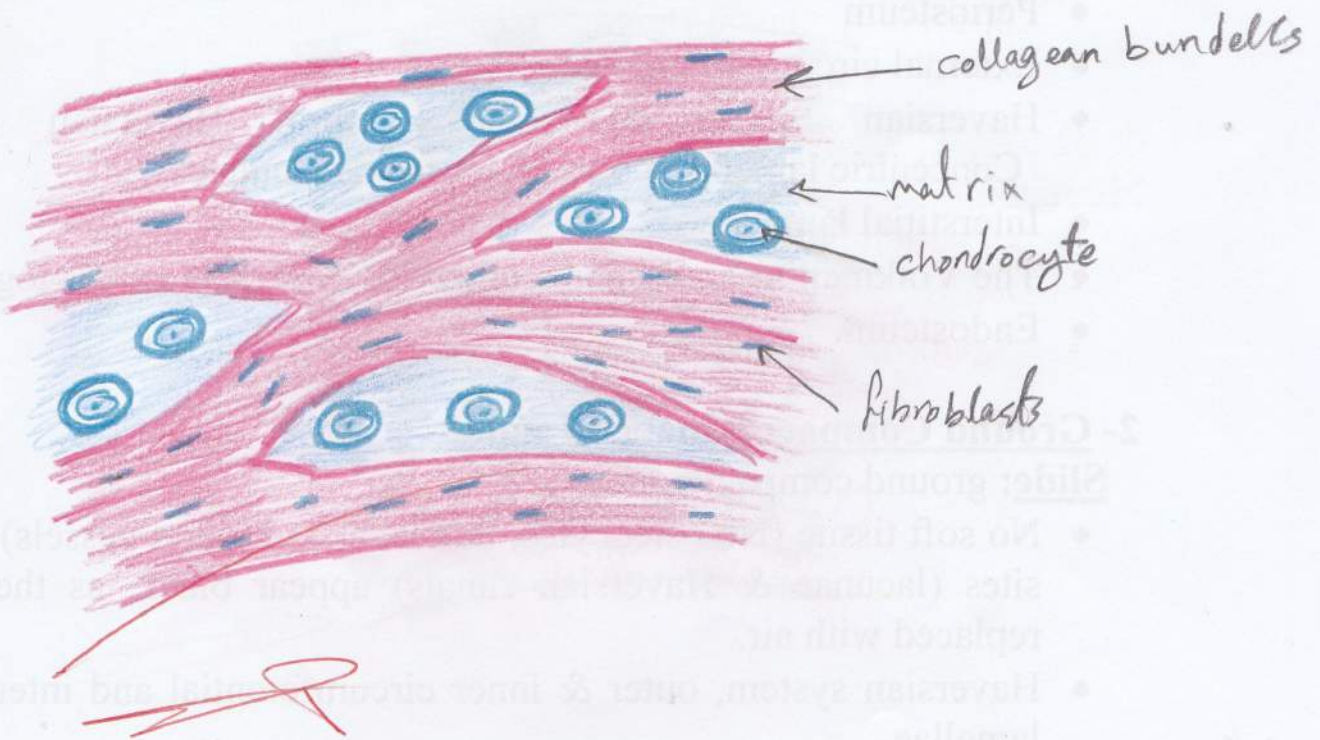
Draw a labeled colored diagram for hyaline cartilage



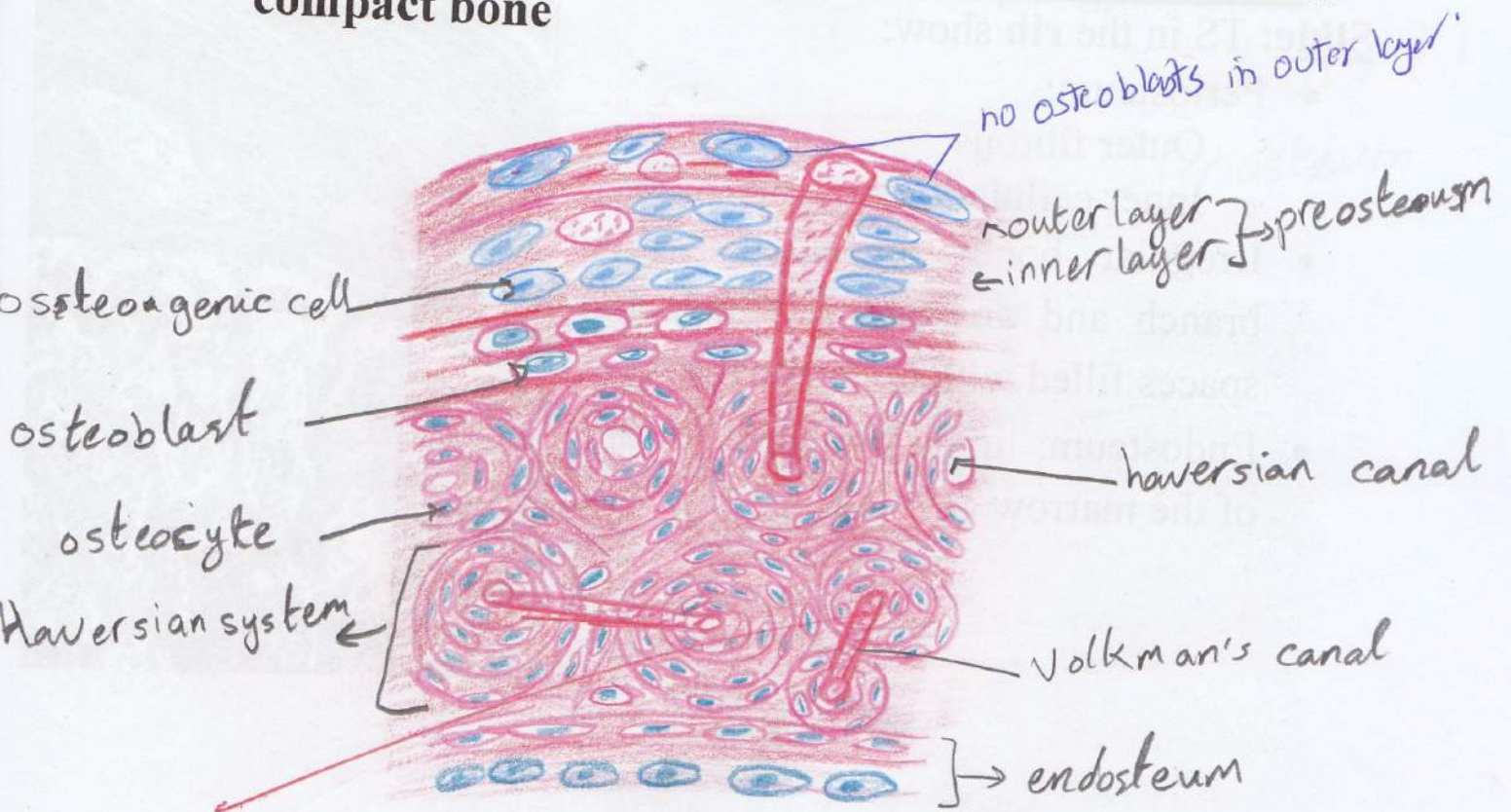
- Draw a labeled colored diagram for yellow elastic cartilage



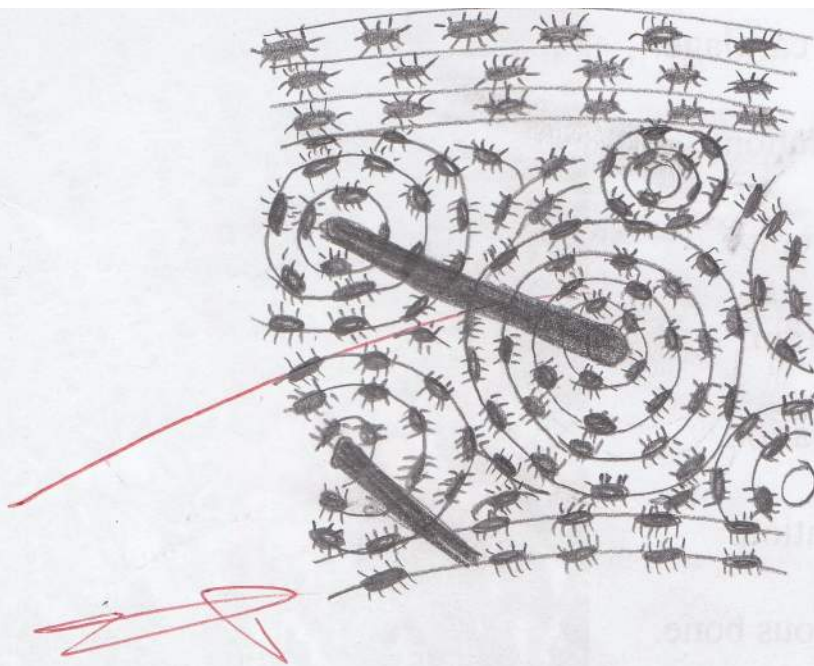
- Draw a labeled colored diagram for white fibrocartilage



- Draw a labeled colored diagram for decalcified compact bone

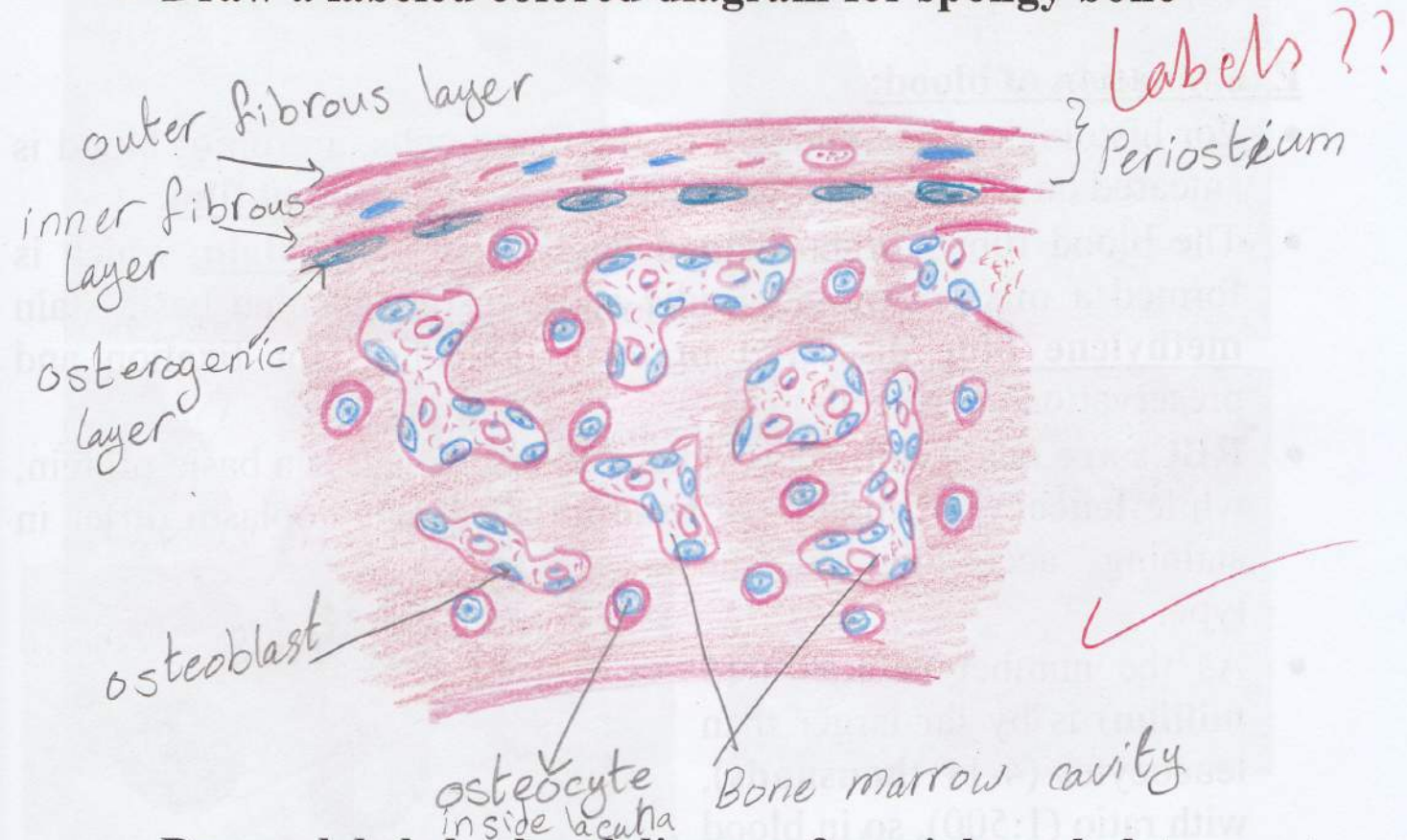


- Draw a labeled colored diagram for ground compact bone

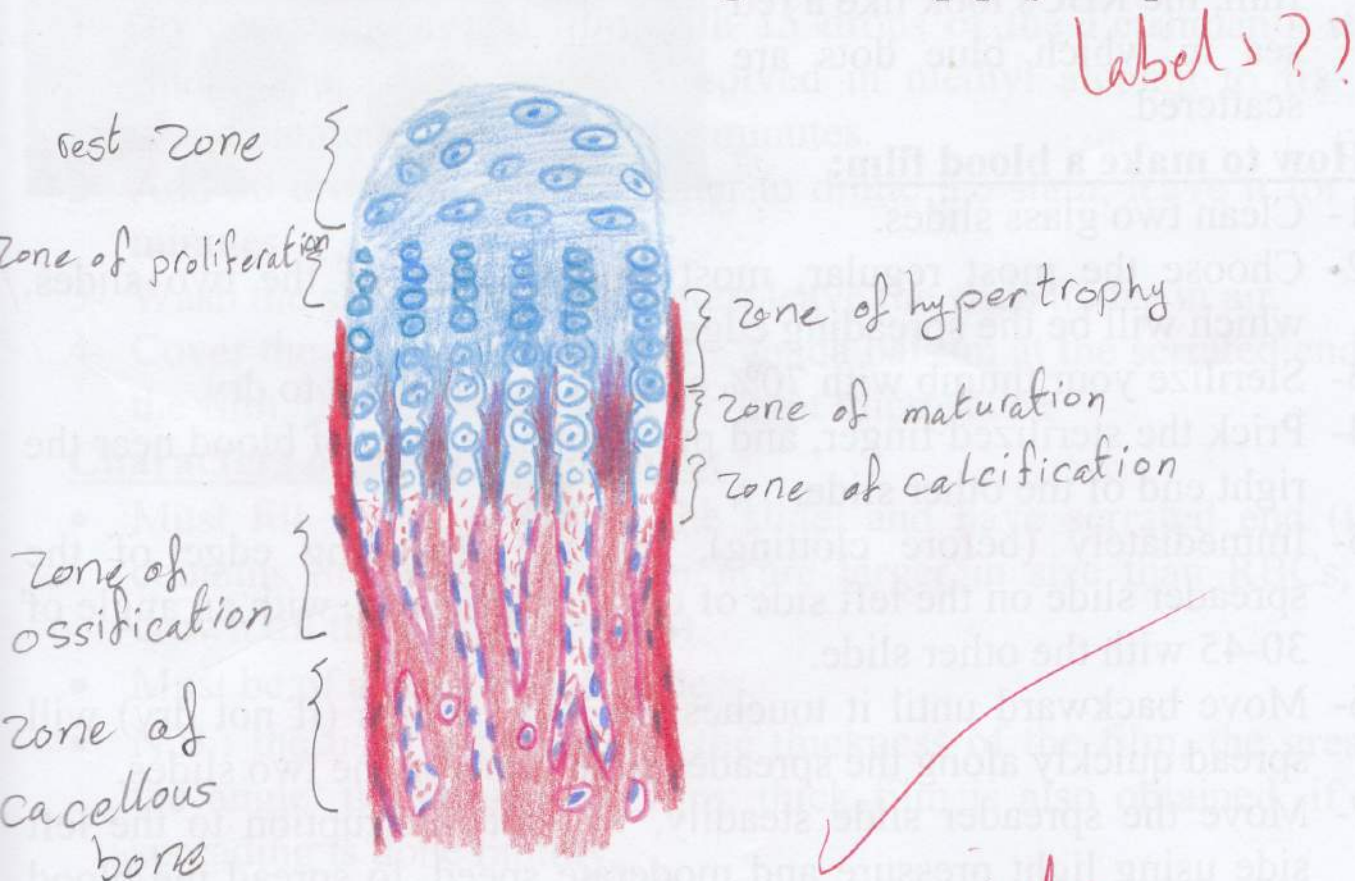


Ground Compact bone

- Draw a labeled colored diagram for spongy bone



- Draw a labeled colored diagram for epiphyseal plate



Noha
a/4

- Draw a labeled colored diagram for RBCs & different types of granular leucocytes



- Draw a labeled colored diagram for non-granular leucocytes

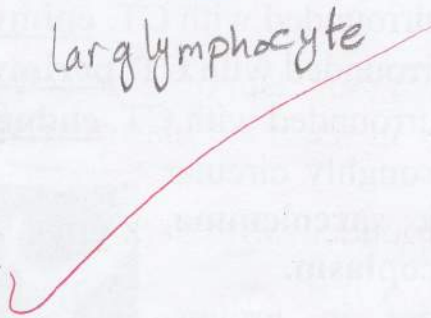
Monocyte



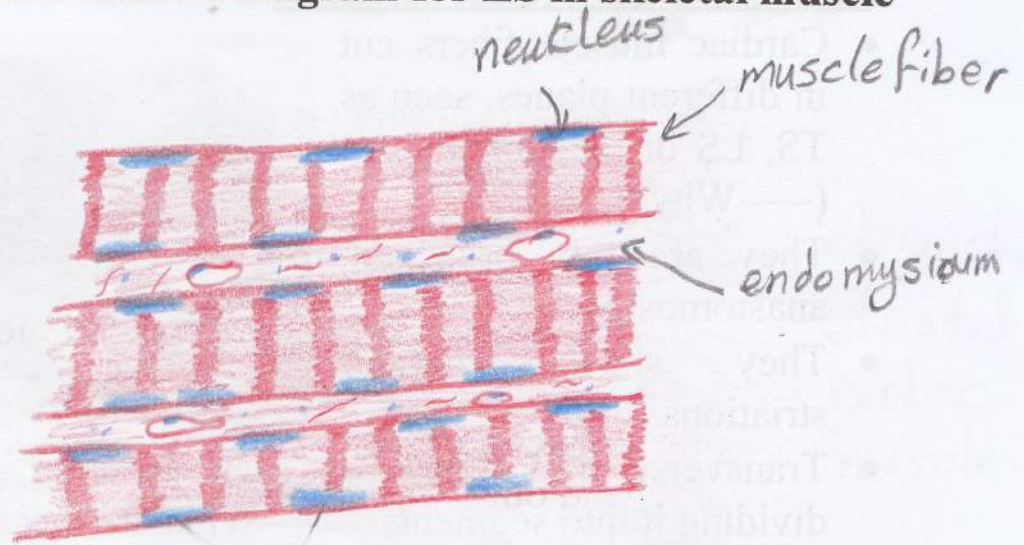
small lymphocyte



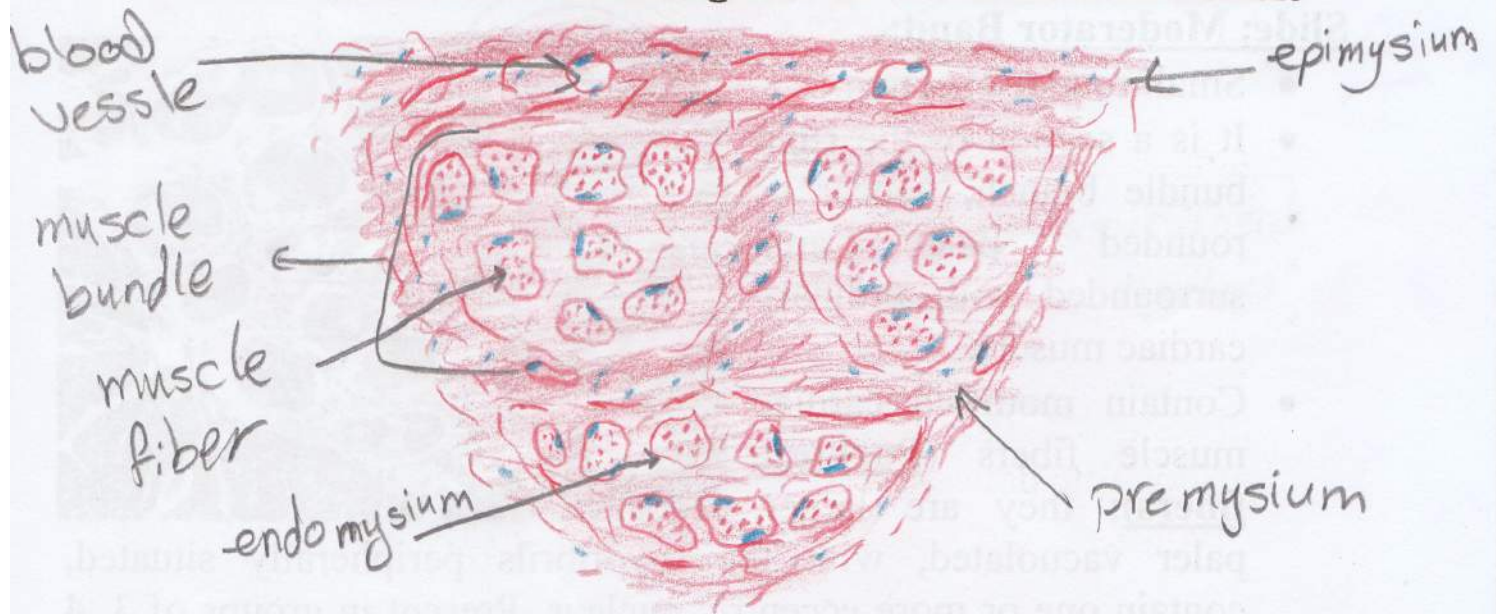
large lymphocyte



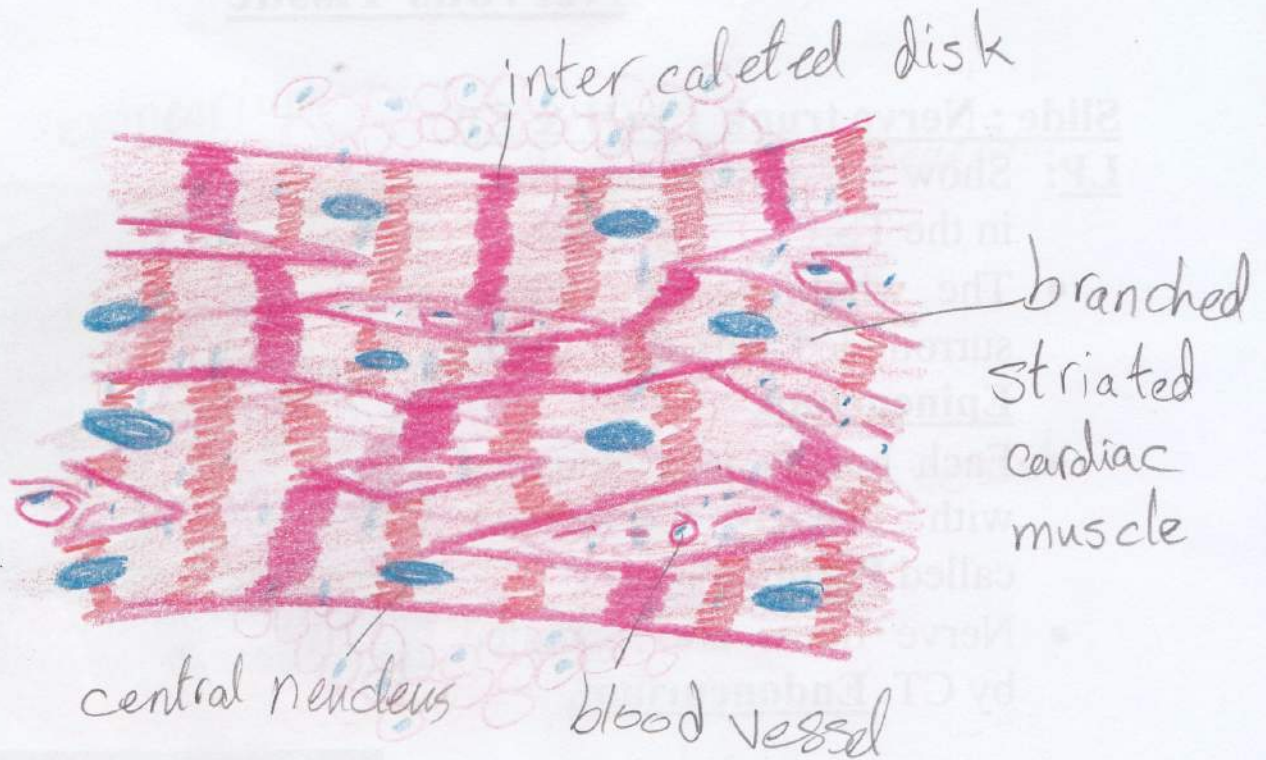
- Draw a labeled colored diagram for LS in skeletal muscle



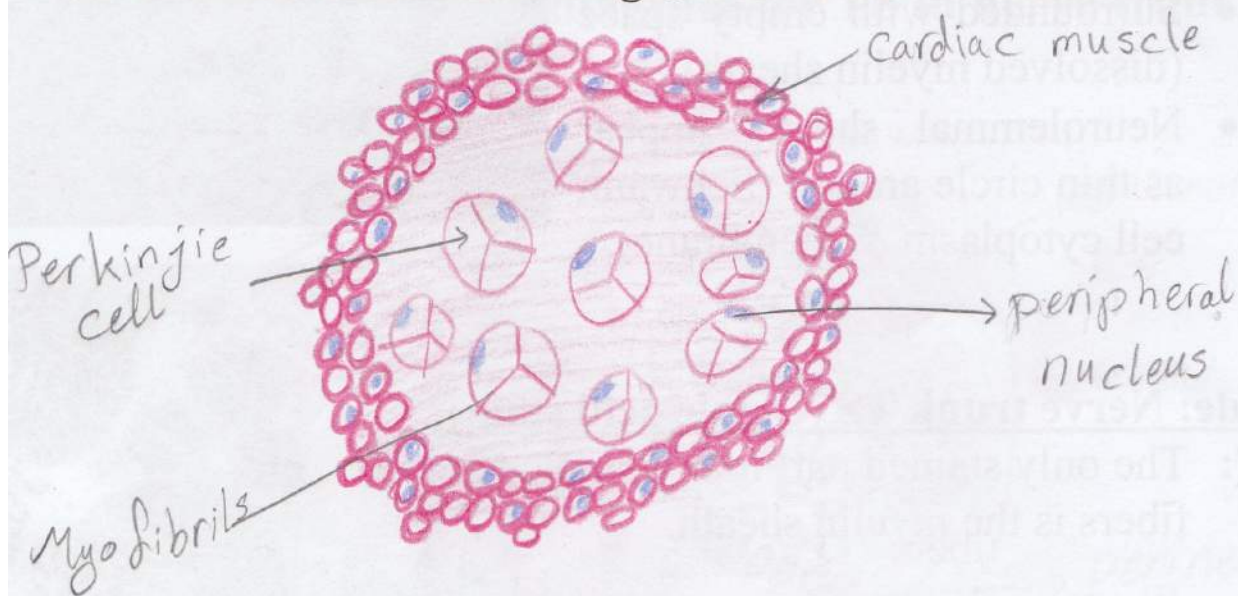
- Draw a labeled colored diagram for TS in skeletal muscle



- Draw a labeled colored diagram for cardiac muscle & valve

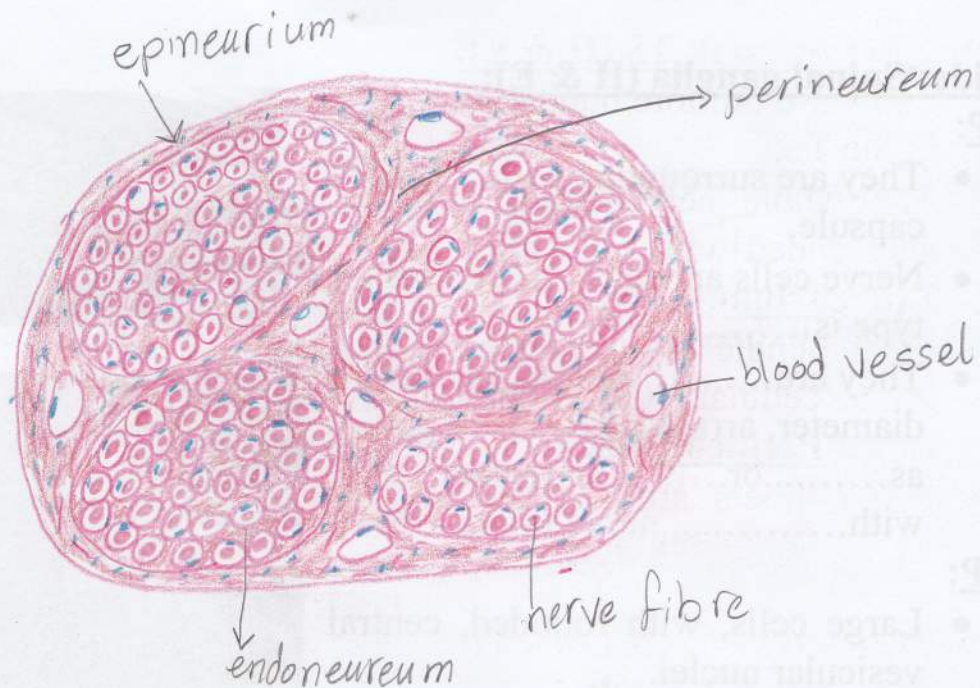


- Draw a labeled colored diagram for TS in moderator band

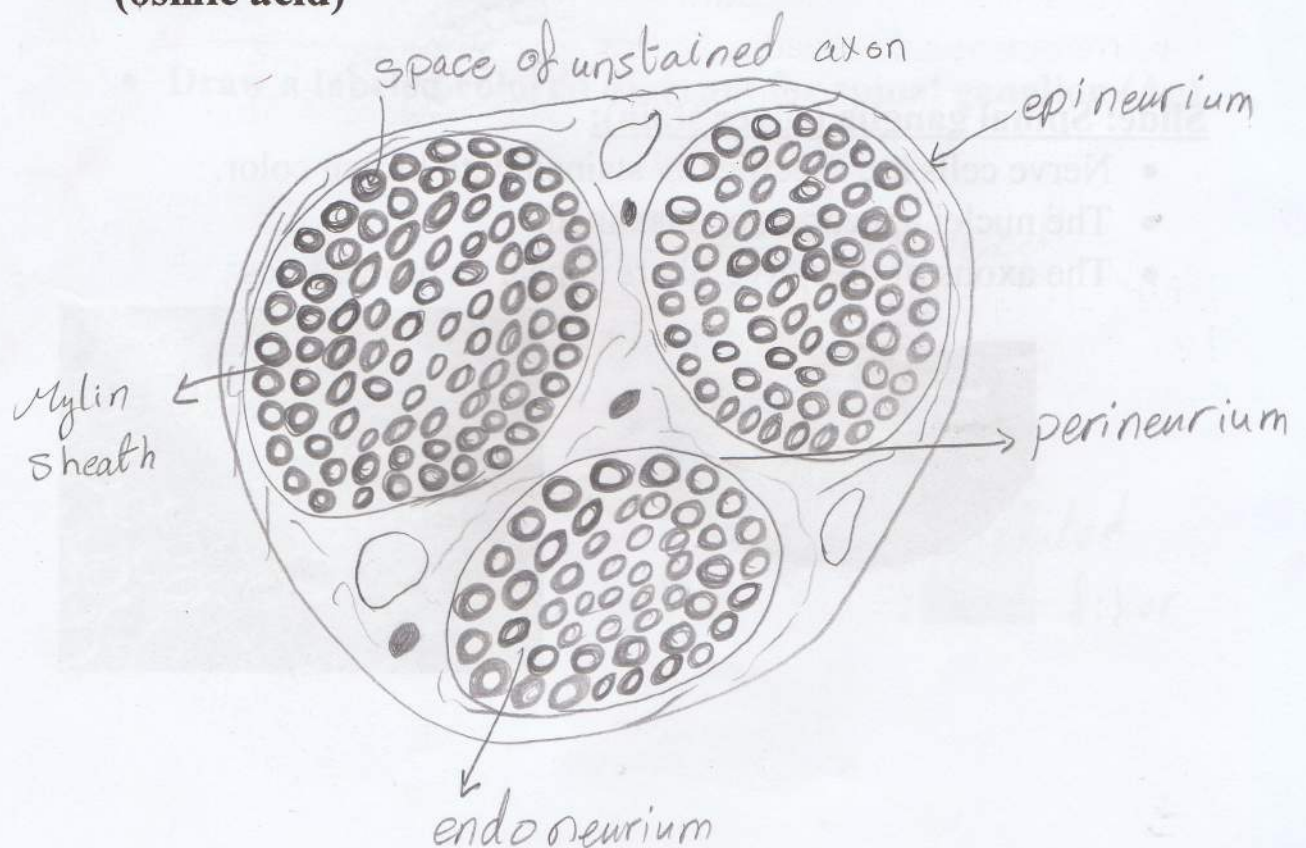


✓
Noha.
g/14

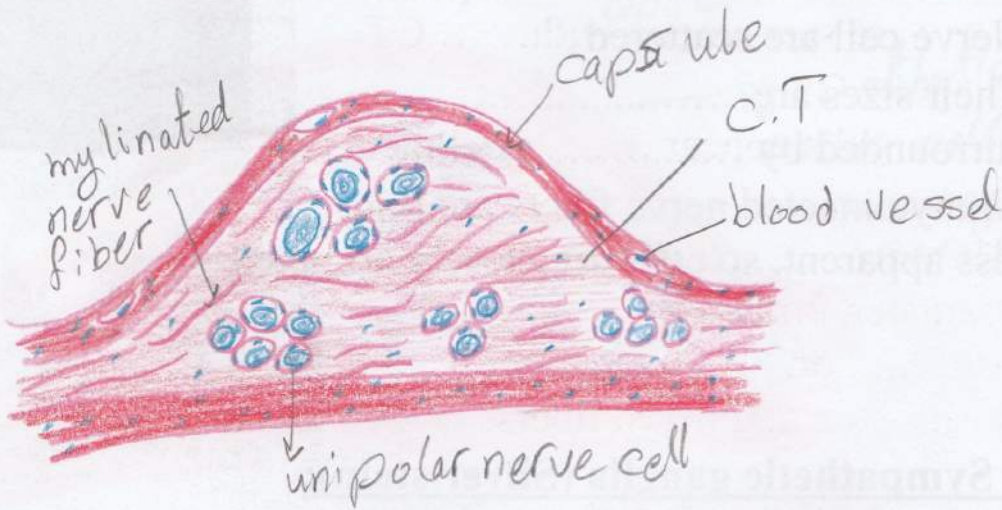
- Draw a labeled colored diagram for TS in nerve trunk (H&E)



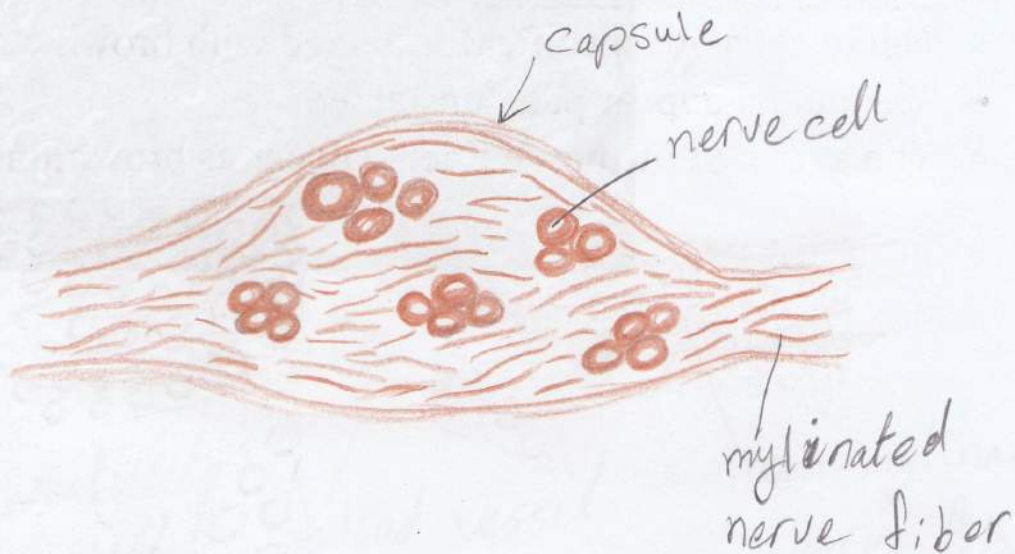
- Draw a labeled colored diagram for TS in nerve trunk (osmic acid)



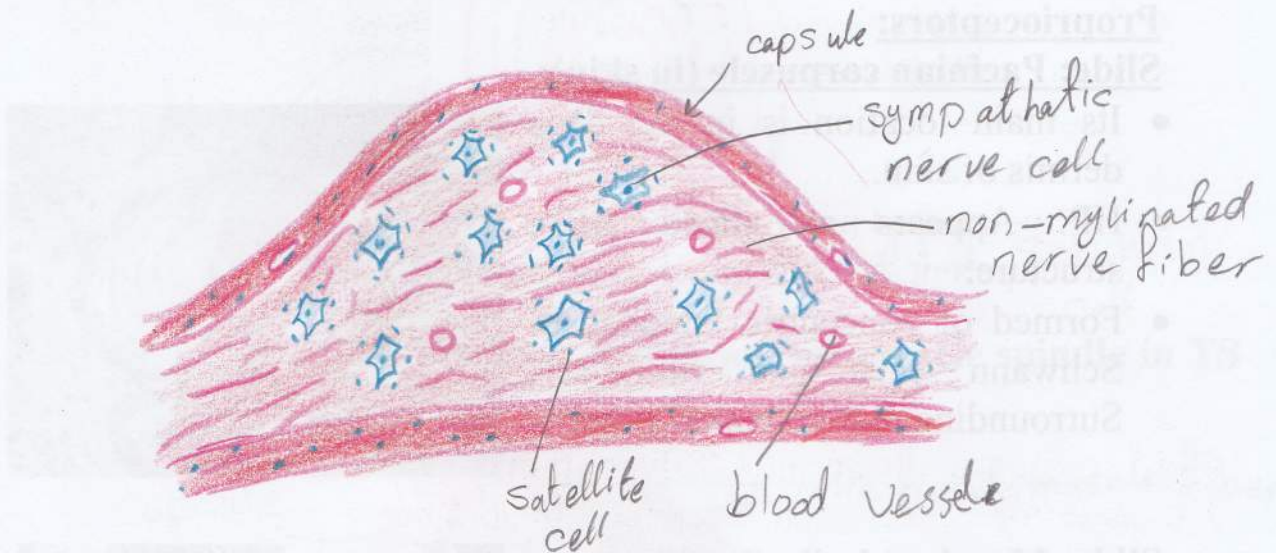
Draw a labeled colored diagram for spinal ganglion (H&E).



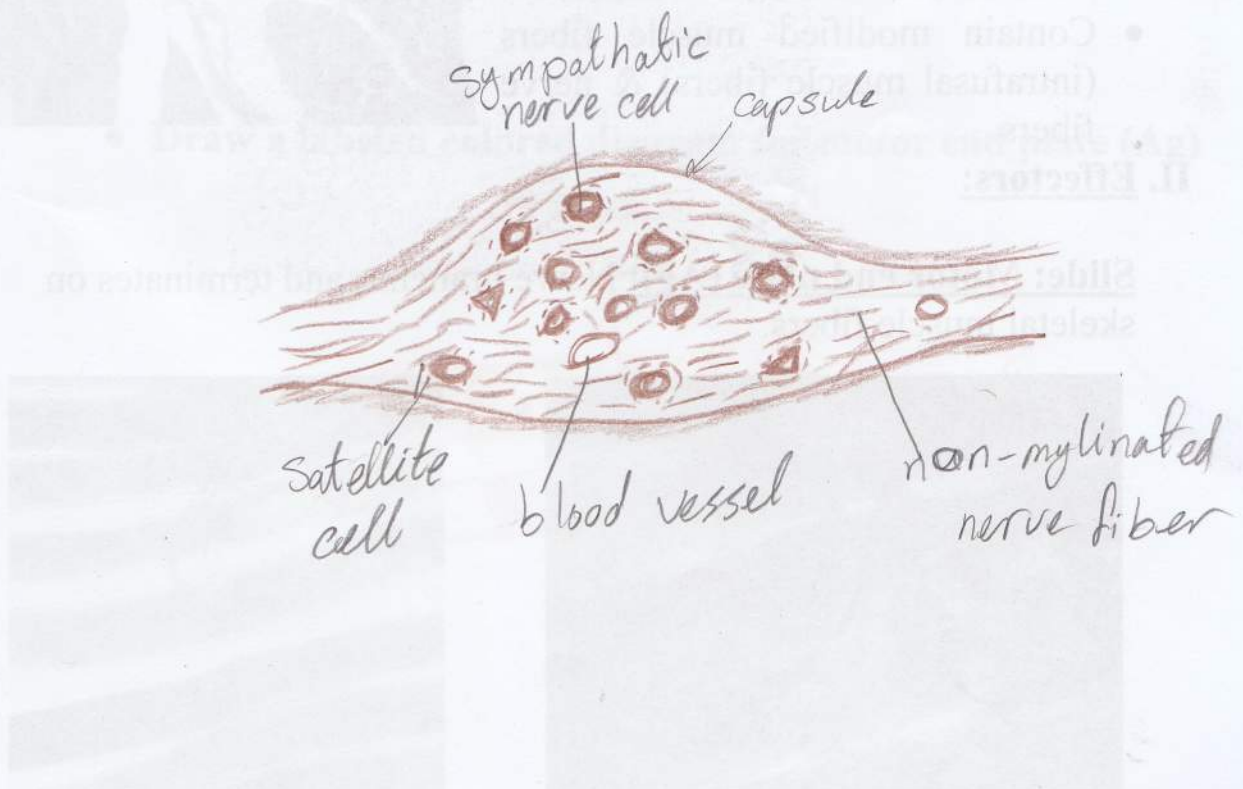
Draw a labeled colored diagram for spinal ganglion (Ag)



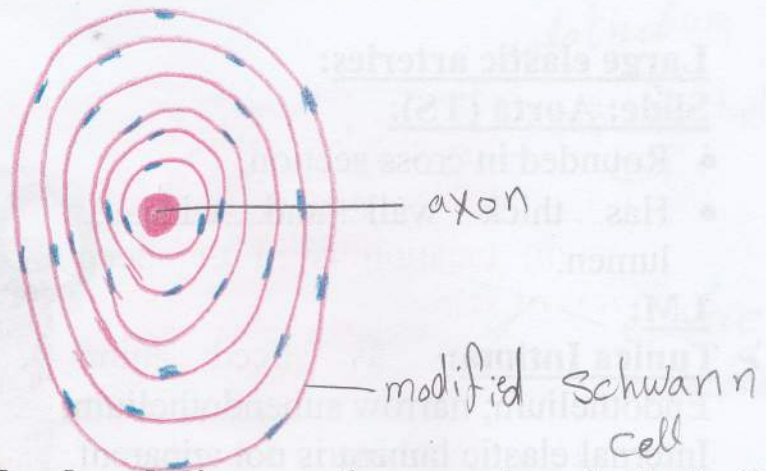
- Draw a labeled colored diagram for sympathetic ganglion (H&E)



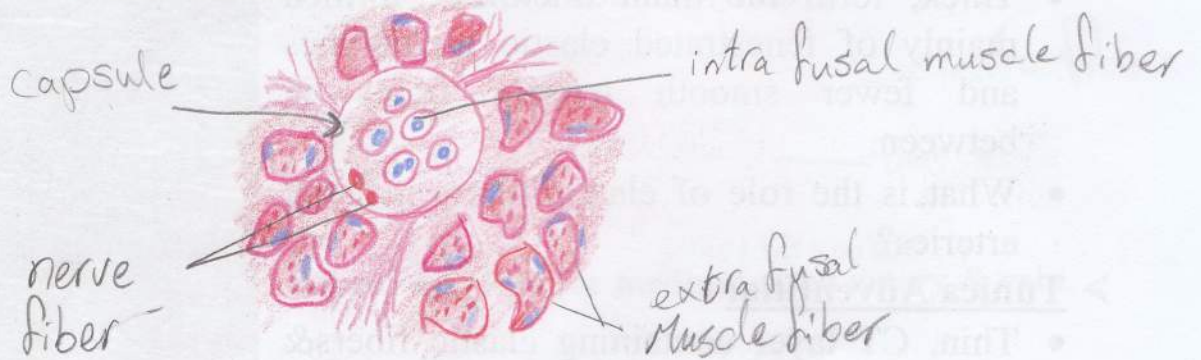
- Draw a labeled colored diagram for sympathetic ganglion (Ag)



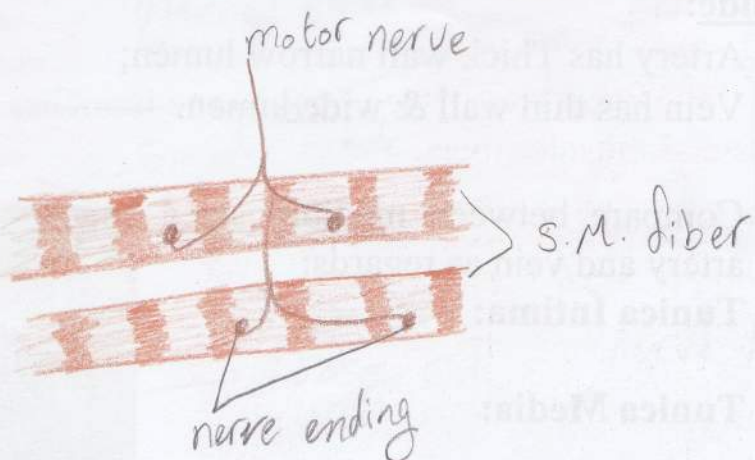
- Draw a labeled colored diagram for Pacinian corpuscle



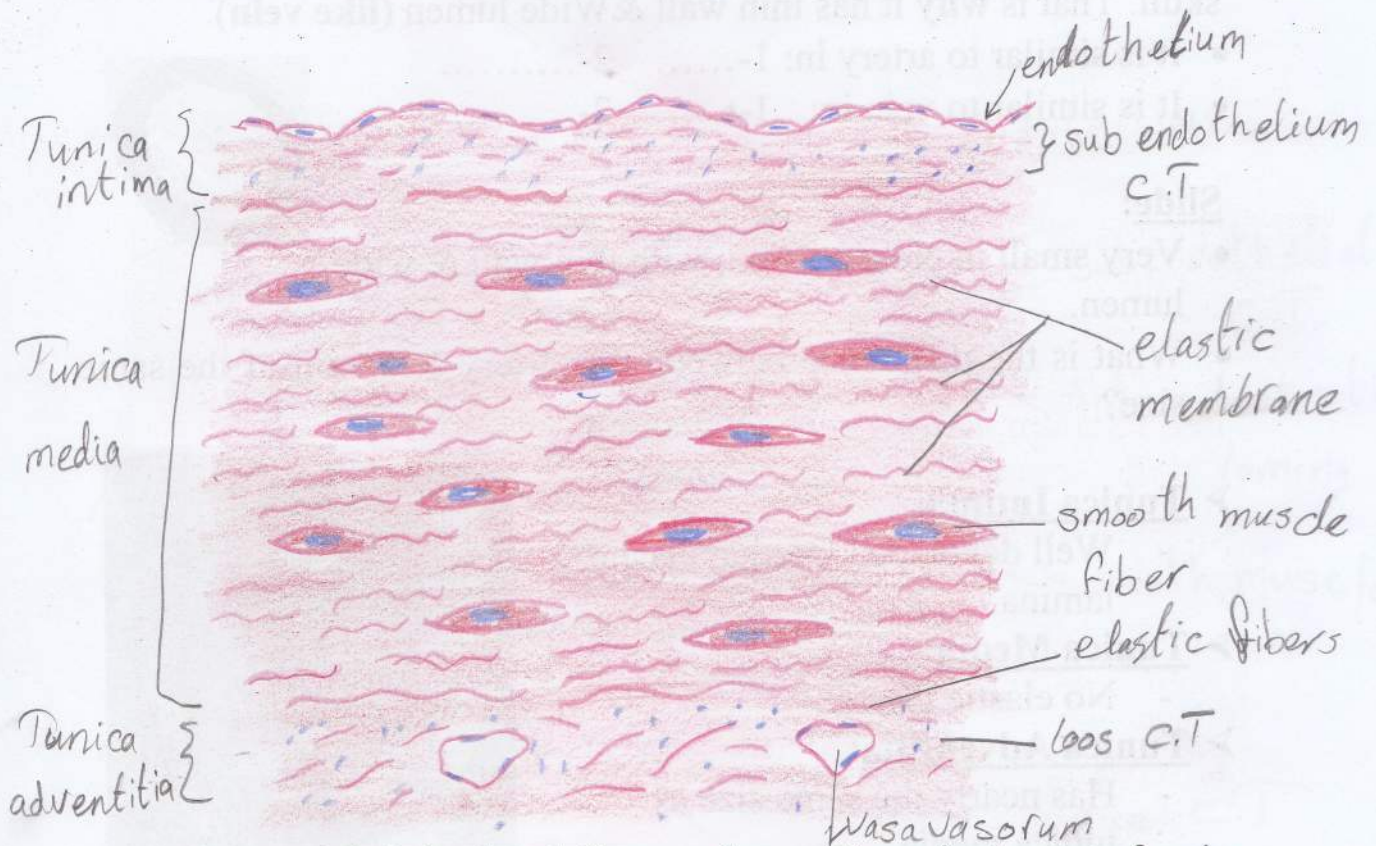
- Draw a labeled colored diagram for muscle spindle in TS skeletal muscle



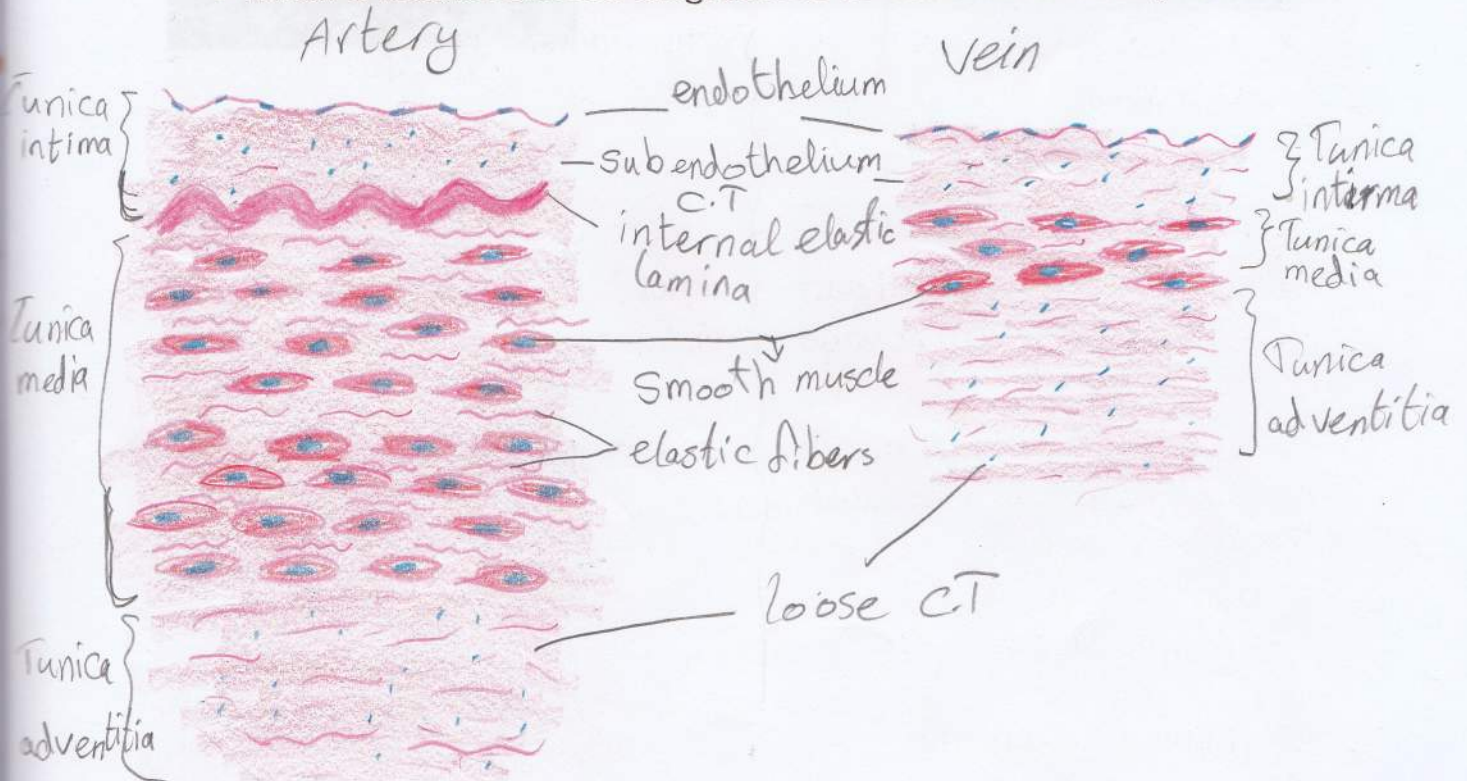
- Draw a labeled colored diagram for motor end plate (Ag)



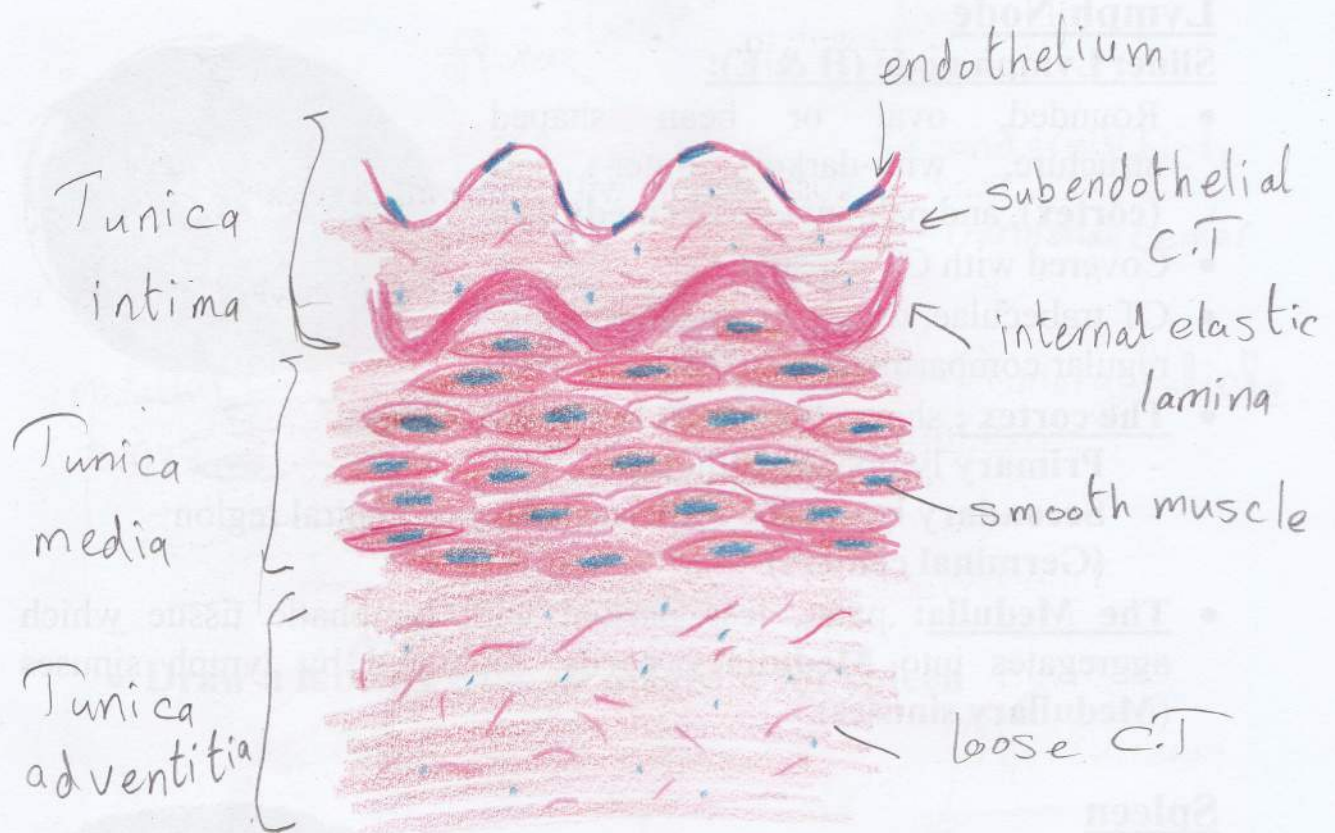
- Draw a labeled colored diagram for Aorta (TS)



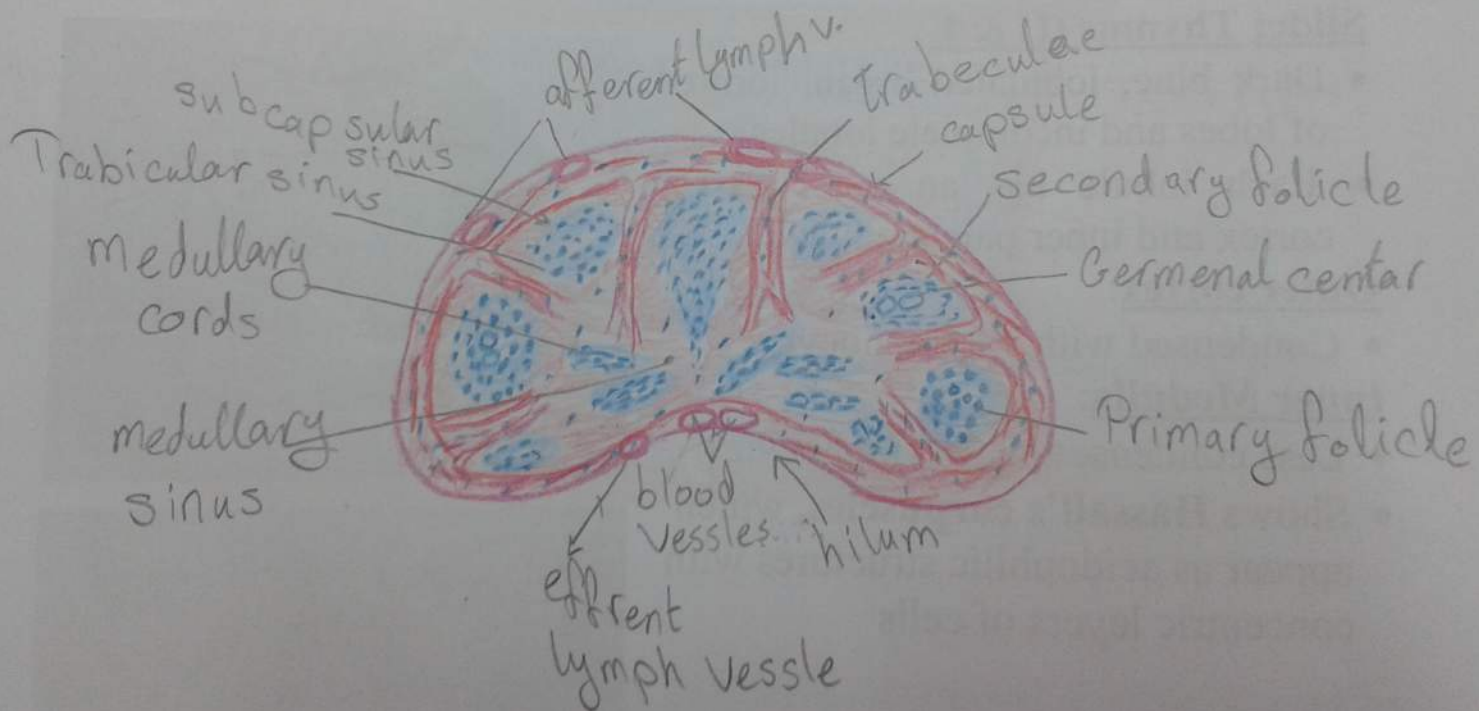
- Draw a labeled colored diagram for medium-sized artery & vein.



- Draw a labeled colored diagram for basilar artery

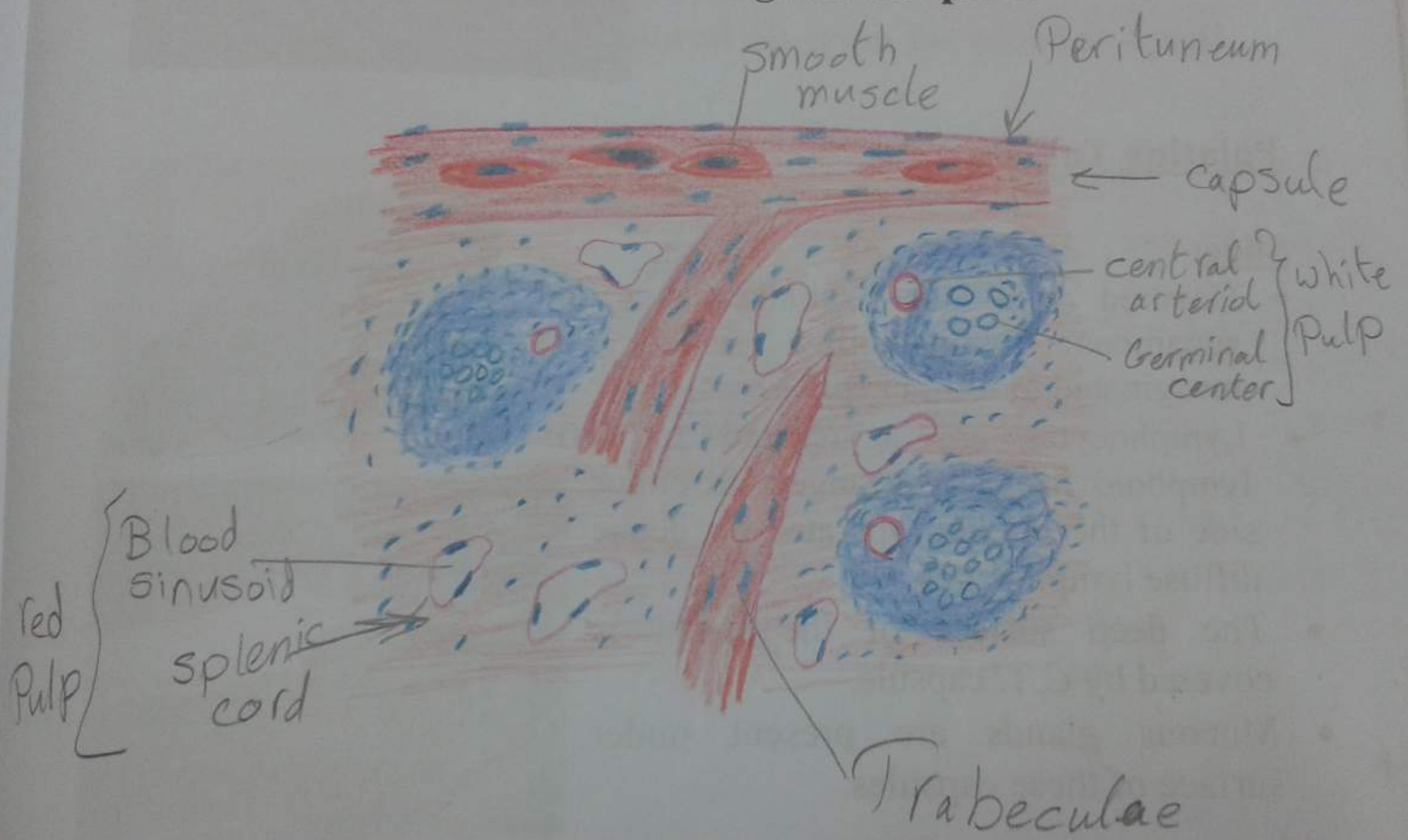


- Draw a labeled colored diagram for lymph node

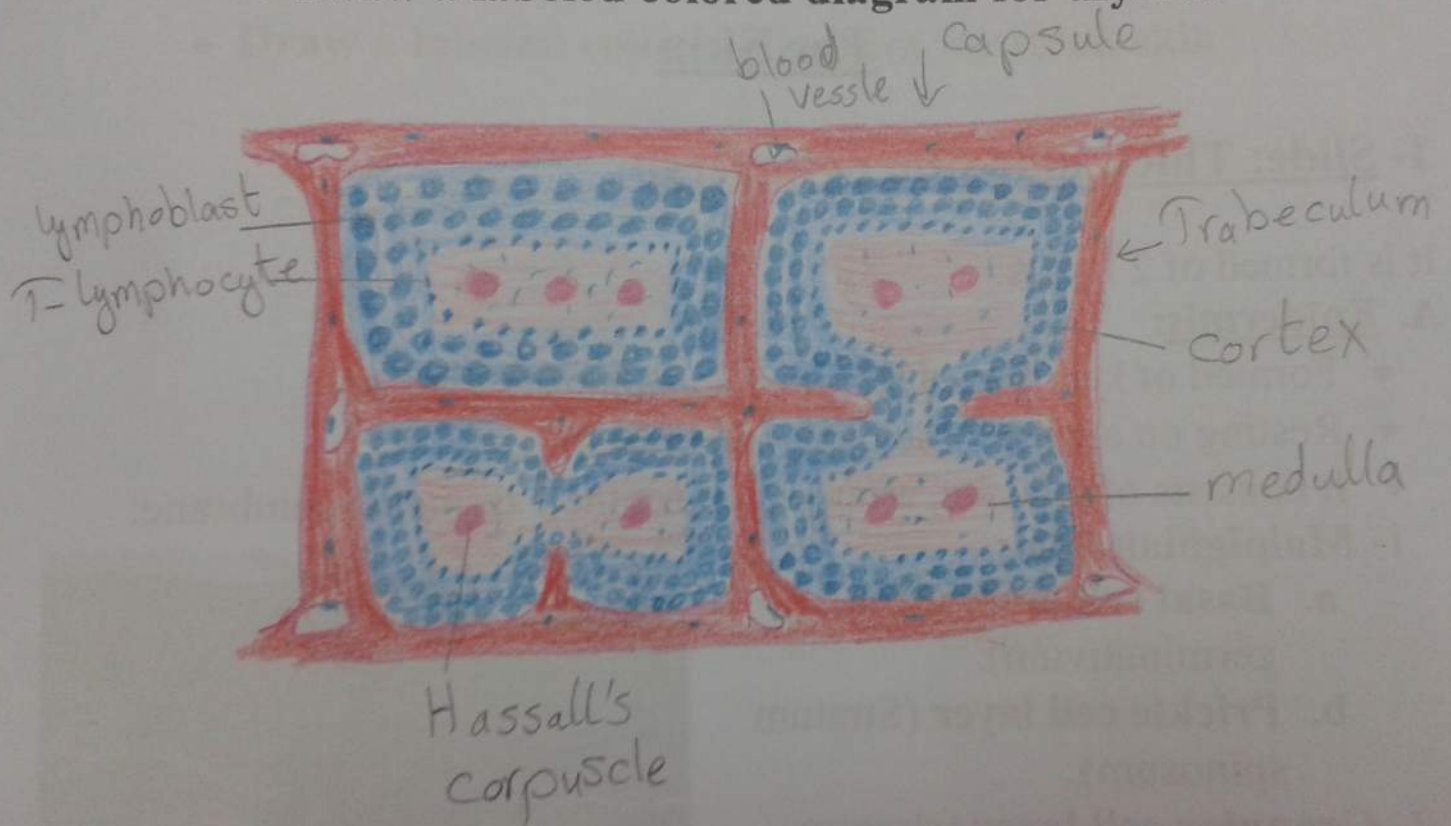


- Draw a labeled colored diagram for spleen

- Draw a labeled colored diagram for spleen



- Draw a labeled colored diagram for thymus



- Draw a labeled colored diagram for palatine tonsil

- Draw a labeled colored diagram for palatine tonsil

