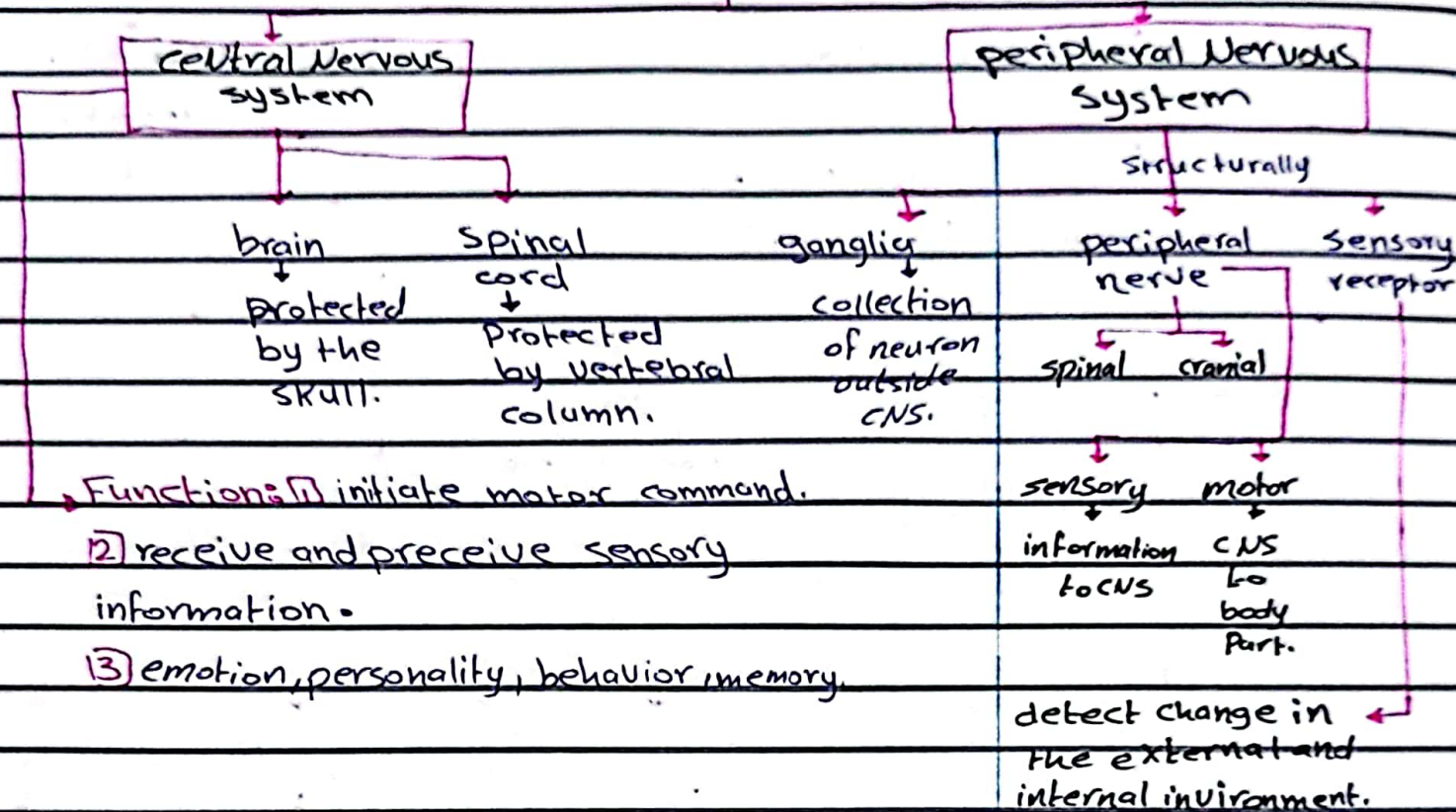


Nervous system



very small amount of ECM

Nervous tissue

Neuron (cannot divide)
(Nerve cell)

- Functional unit of CNS.
- produce action potential.

cell body

nucleus
+ prominent
nucleolus

nissl
bodies

Neurofilament
give shape
and support

cell processes

axon dendrite

Neuroglia
(supporting)

PNS

CNS

Schwann
cell

form myelin
sheath

Satellite
cell

support
in dorsal root
ganglia.

rough endoplasmic
reticulum

Free
ribosomes

Function: protein
synthesis.

microglia
cell

Defense
(phagocytosis)

part of blood
brain barrier.

Astrocyte

Ependymal
cell

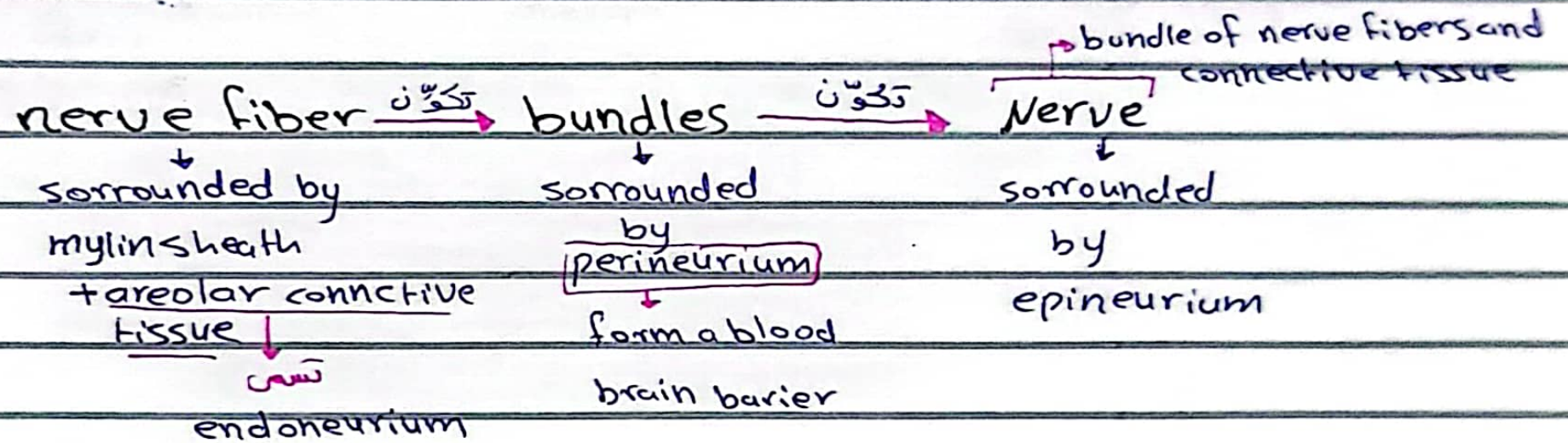
Line
cavities

provide
nutrient

oligodendrocyte

Form a myelin
sheath.

Form scar
tissue



skull

↓
epidural space (between skull & duramater)

dura mater (contains venous sinuses) + outer layer

subdural space (between duramater & arachnoid)

Arachnoid (Thin middle layer)

subarachnoid space (beneath arachnoid) (large)

pia mater (covers the brain) (inner layer)

brain

control the passage of substances
from blood to the nervous tissue

blood brain barrier

endothelium
of
capillaries

pericytes
↓
around
the
capillaries

basal
lamina

processes
of
astrocytes.