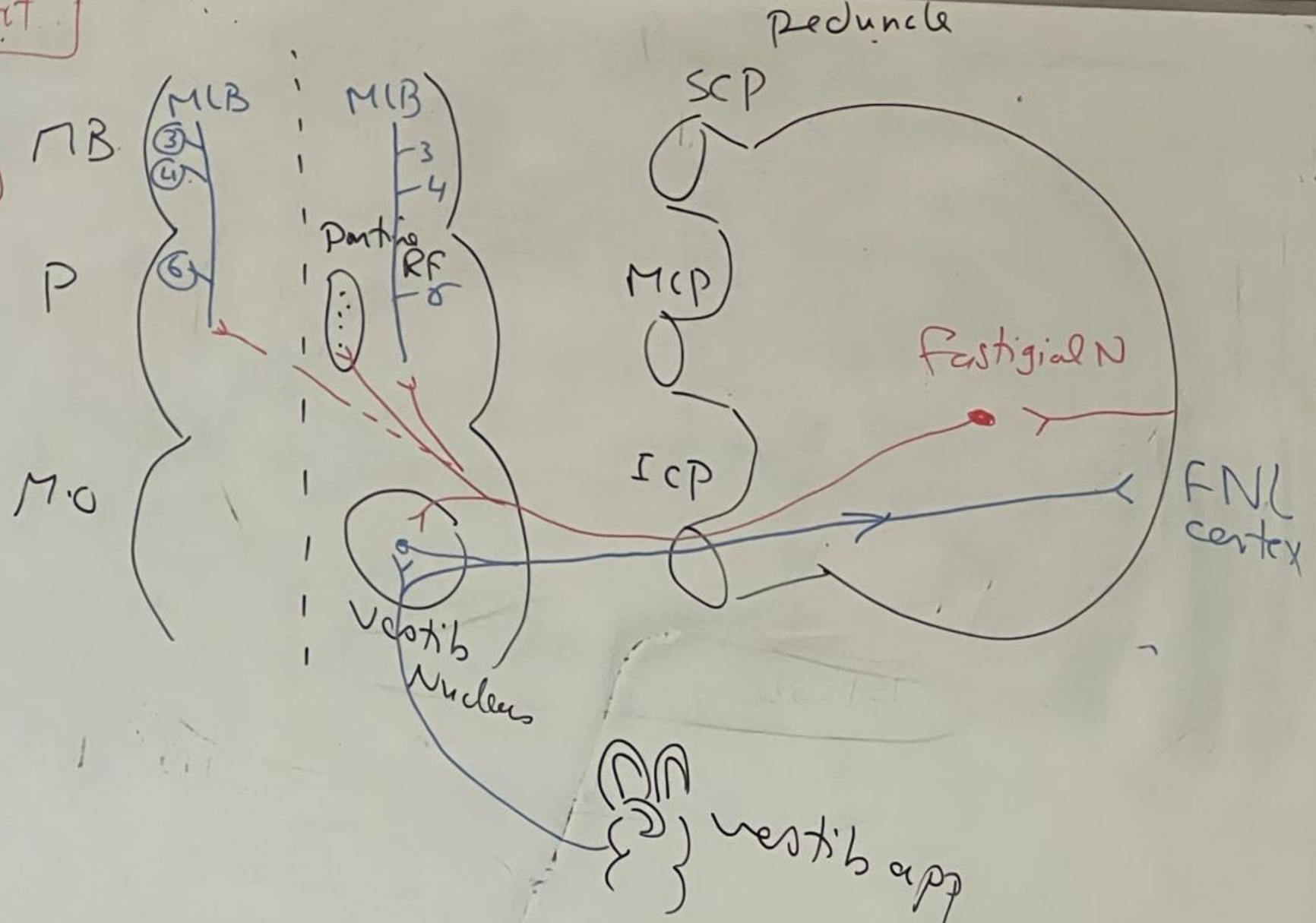
Afferent

Efferent



e in

onses

dial

as

of

(II) Motor

a)

BG

Cerebellum

VA

VL

4

6

Body Proprio

VPL

cc

(III) Association & integration

Emotion

limbic syst

hyp.Th

Thal Nuclei

Ant N

Medial N

Somatic integ resp

Visceral respons

Prefrontal area (cc)

Memory

Medial N

Anatomically

Cere
of white matter

(outer)
Cerebellar cortex

Anterior lobe

Posterior lobe

Flocculonodular lobe

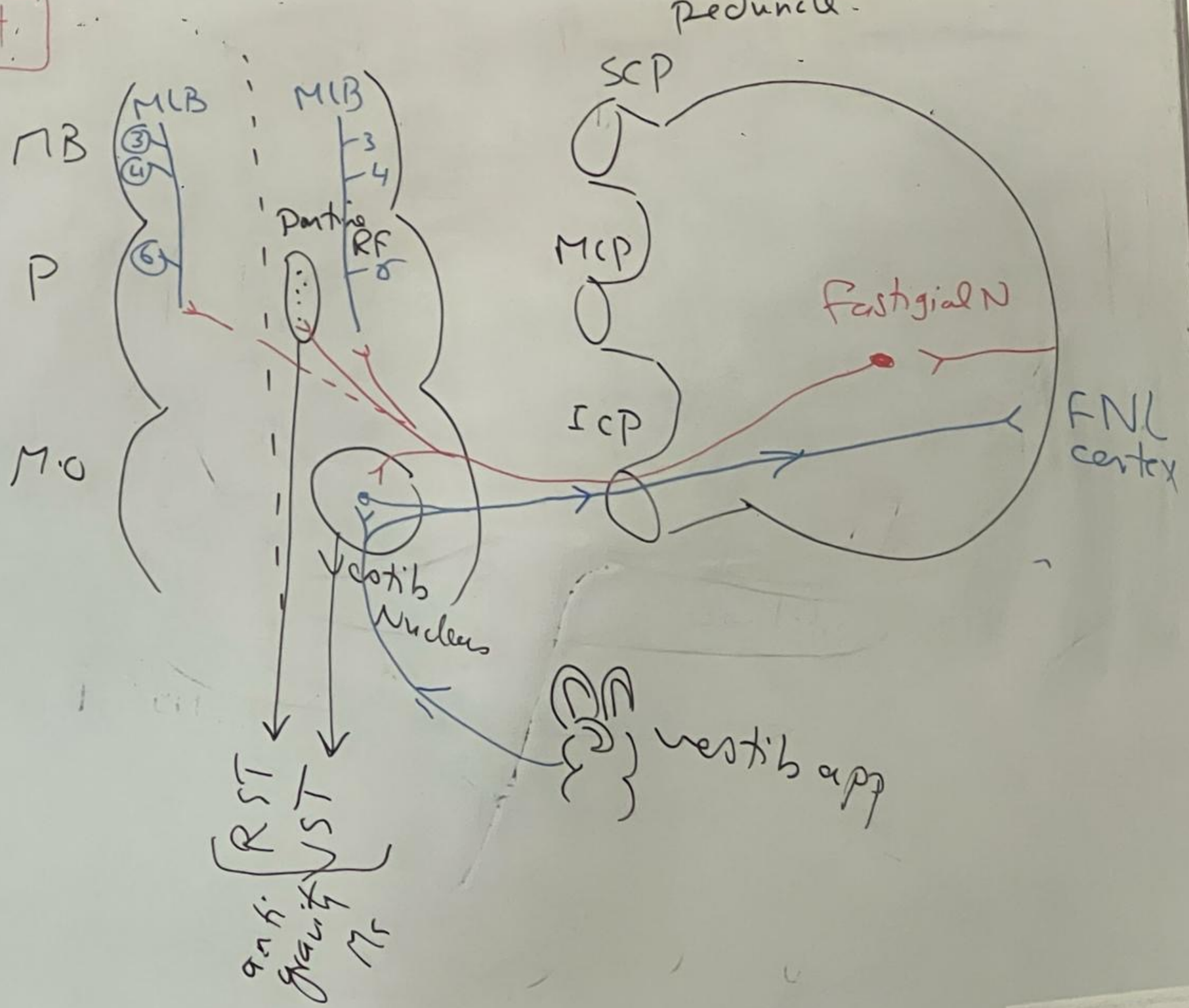
Fastigial
Nucleus

Globose
&
emboliform
=
Interposed
nucleus

dentate

Afferent

Efferent



Protection

of movement

Failure of

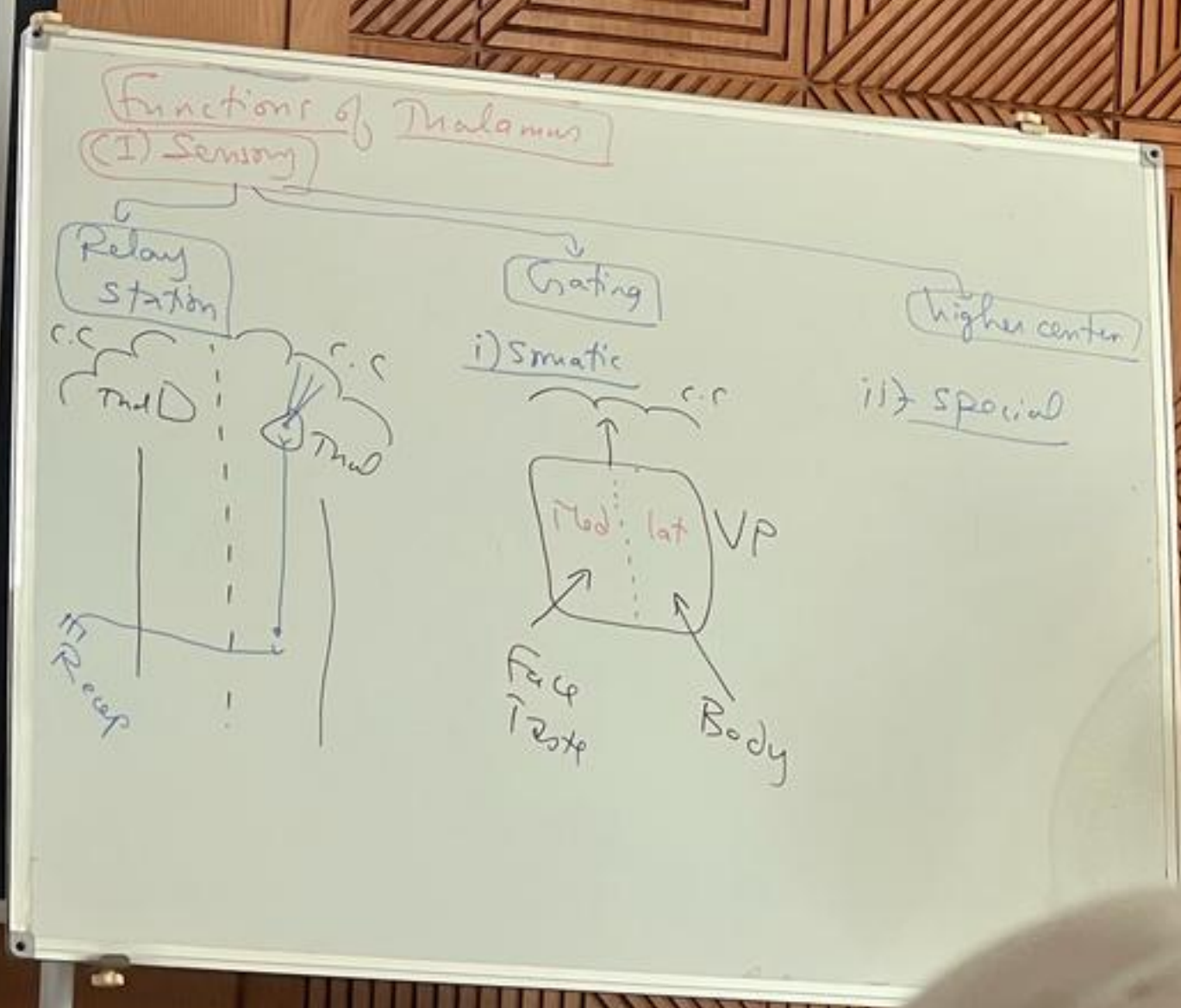
Pred & Jumping (PV)

Plan of Sag & timing (197)

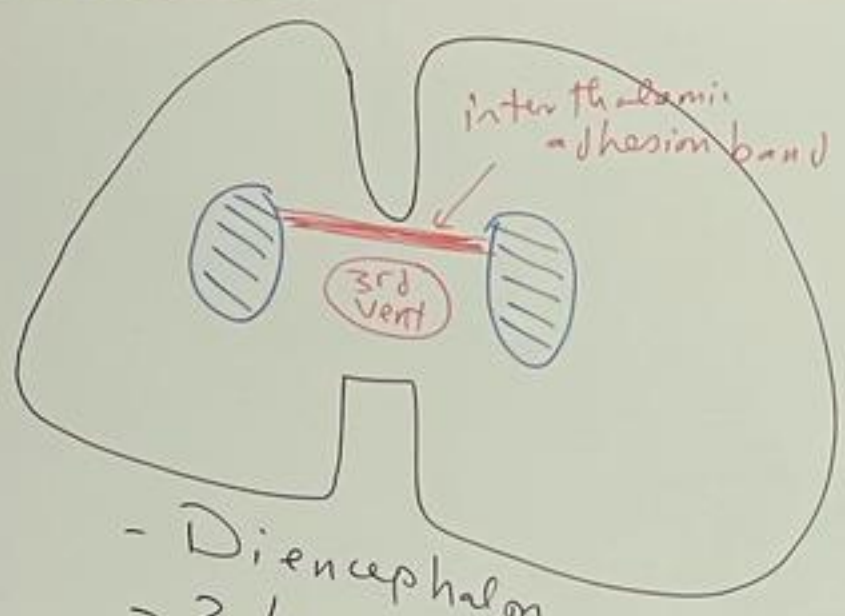
cleus

G.B. and

M.G.B.

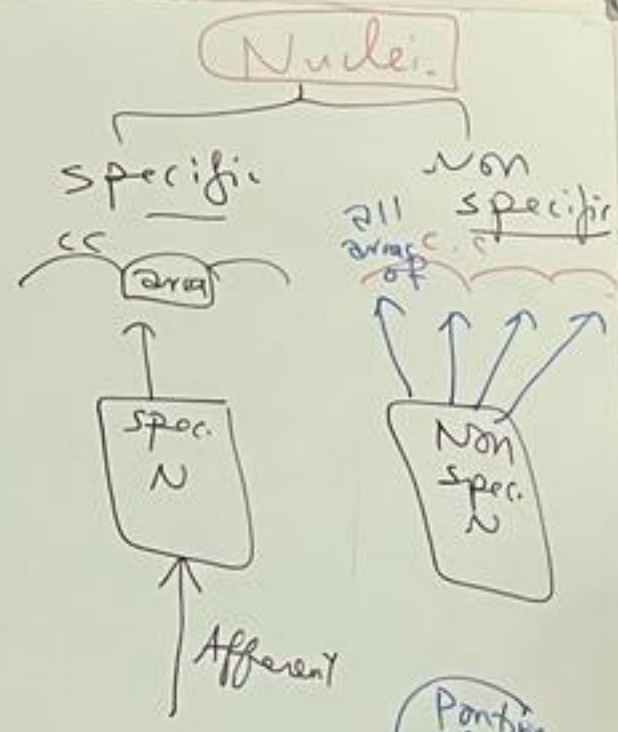


Thalamus



- Diencephalon
- 2 large ovoid grey masses
- connected by
- sep by

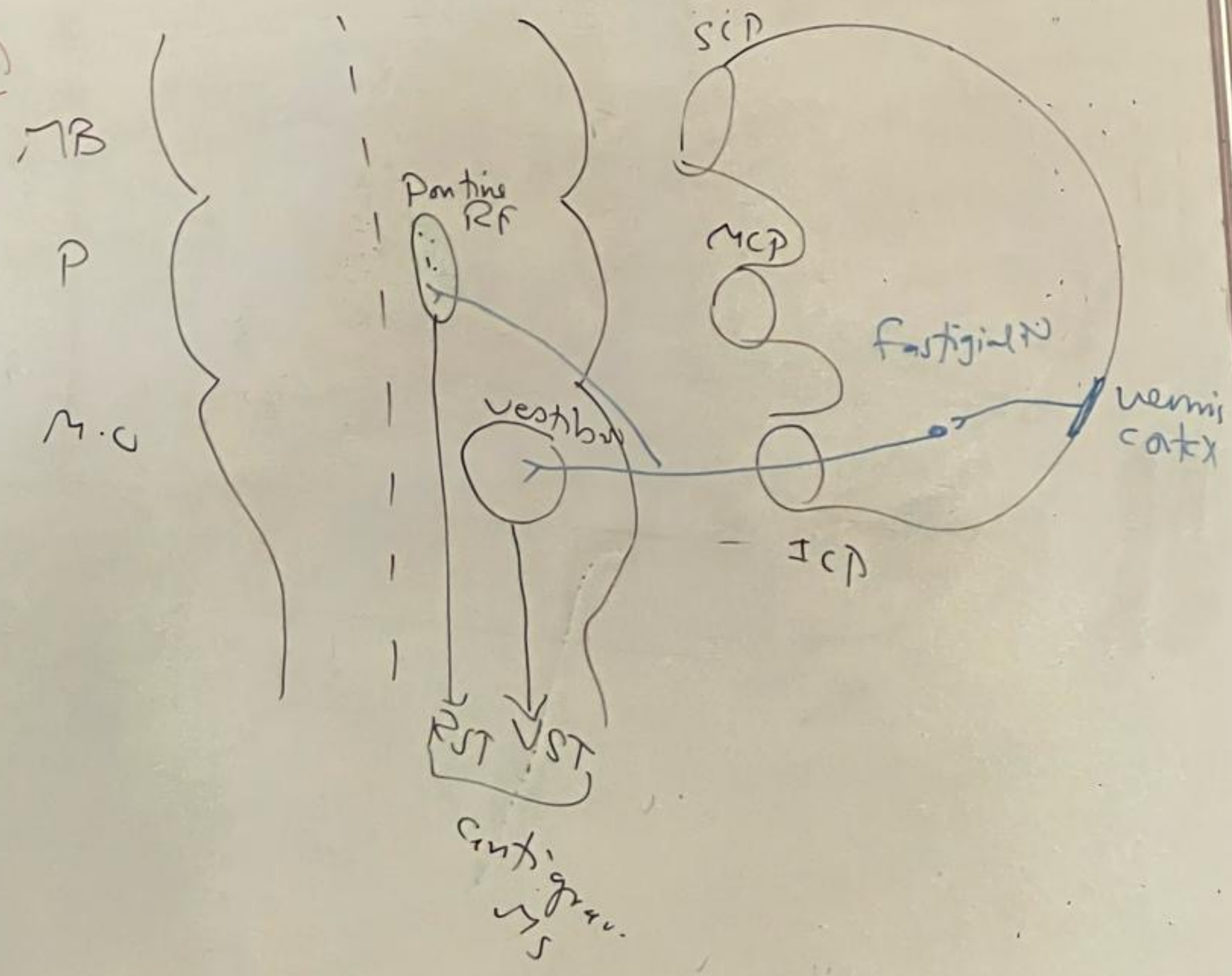
Nuclei.



(RAS)

Vermis

Efferent



ne

to

it

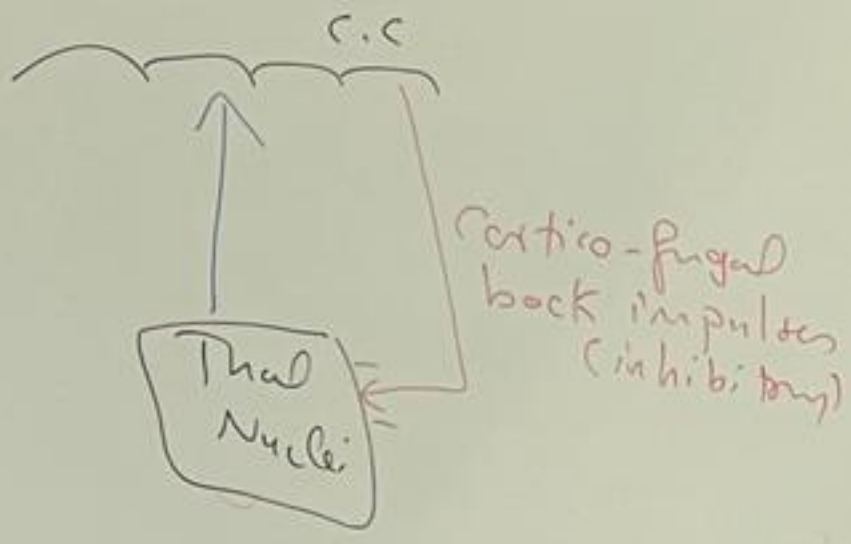
lei

h.

I) Sensory

a) Relay station → Somatic
→ Special

b) Grating



c) higher center

crude touch

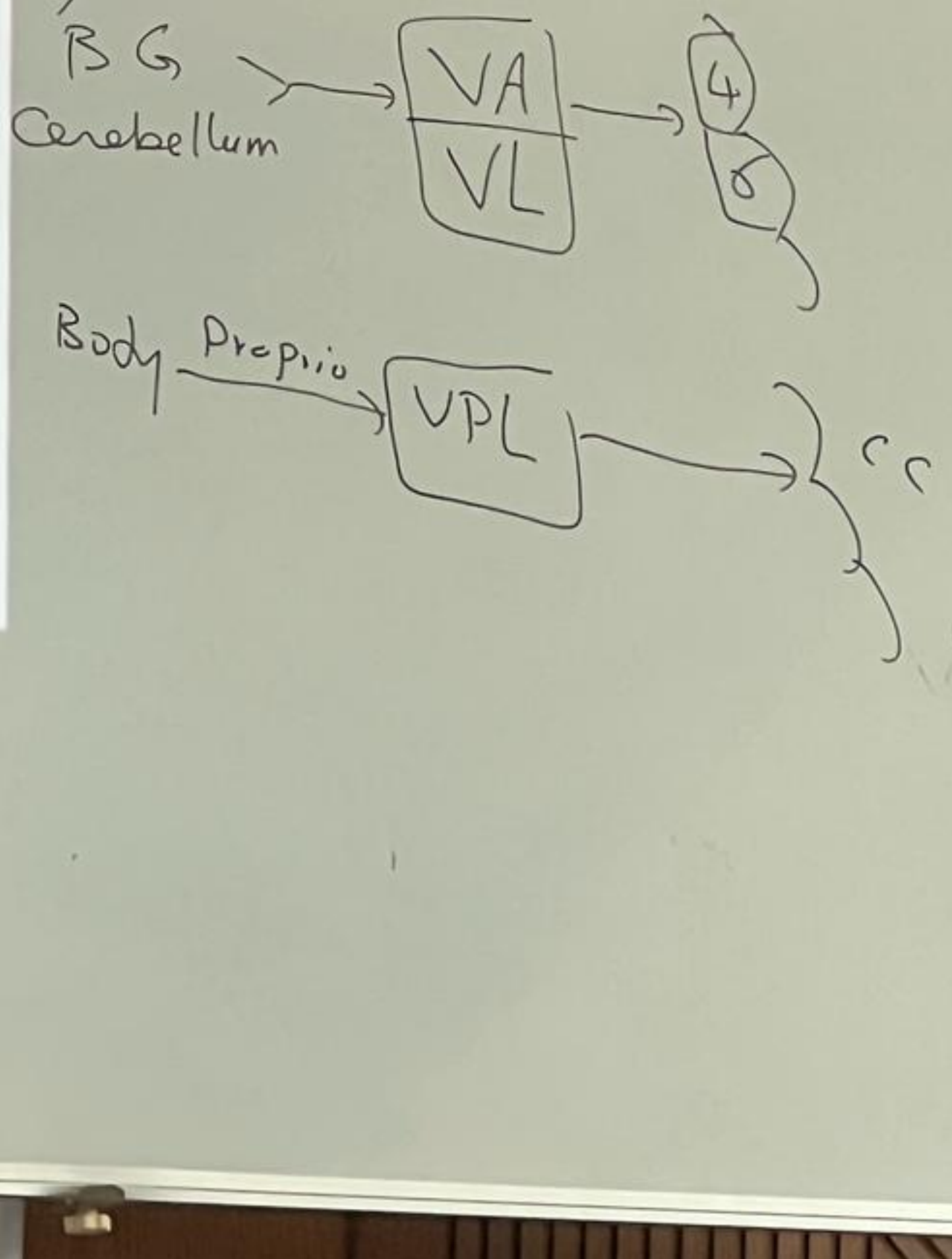
Diffuse pain

al

f

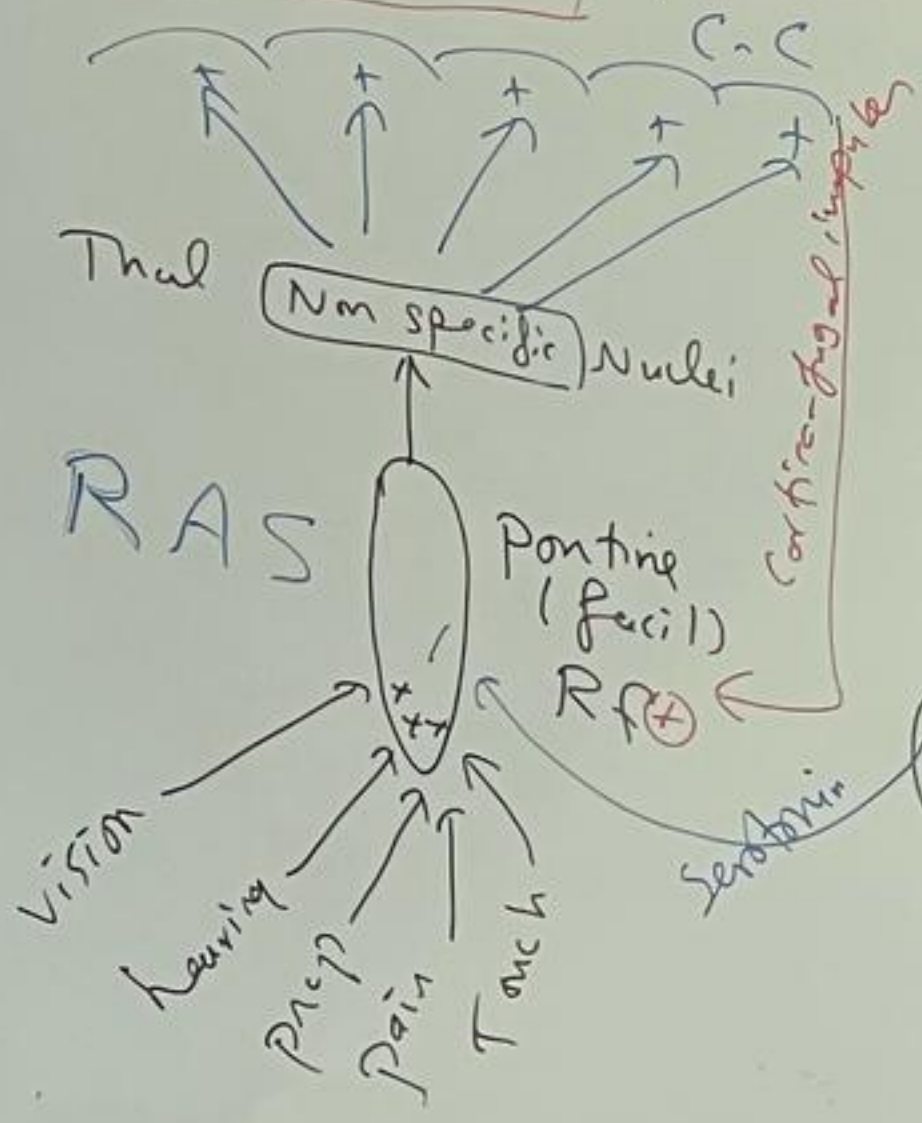
(II) Motor

a)



(IV) Arousal

Thinking



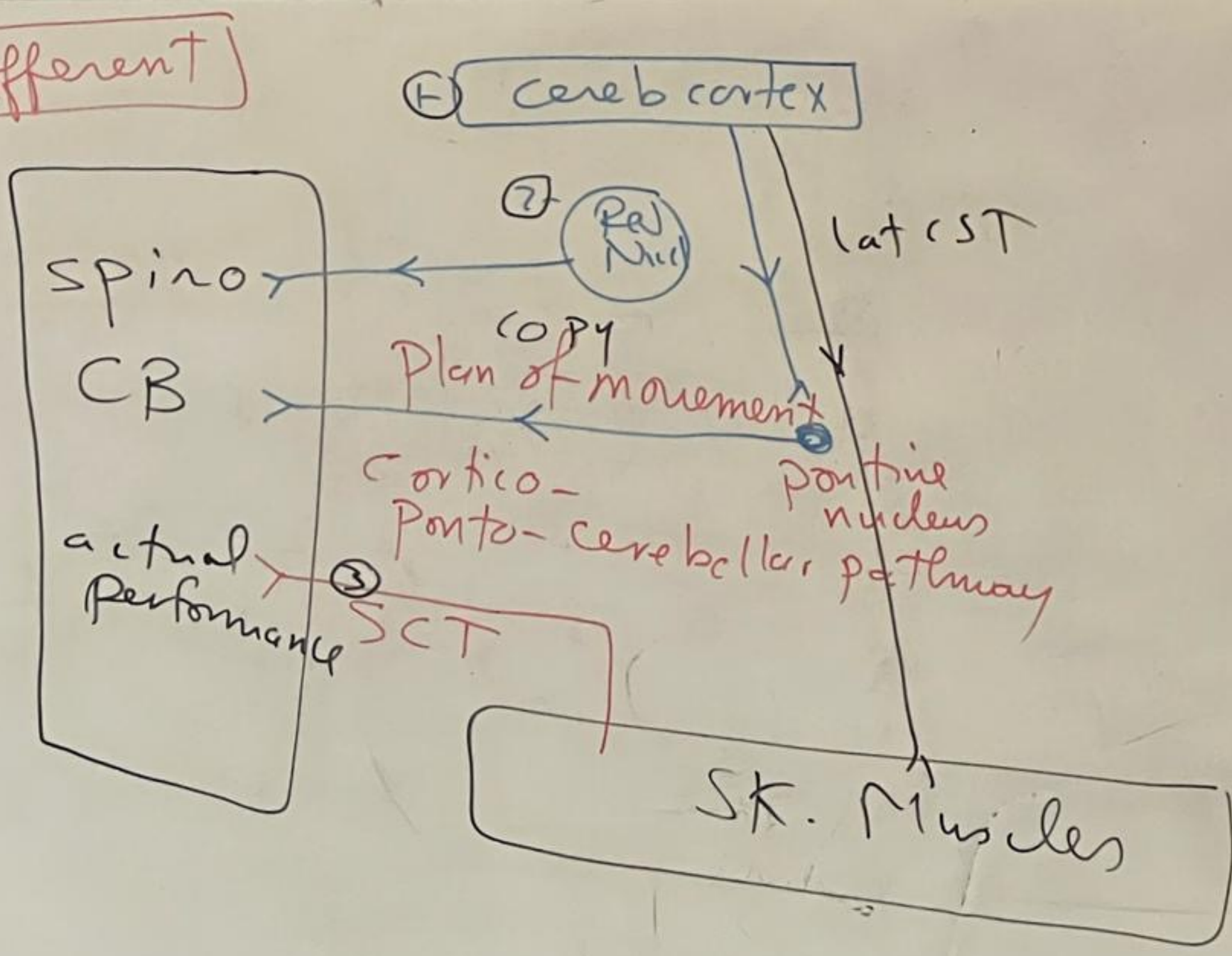
Factors affecting RAS

1- Sensory :

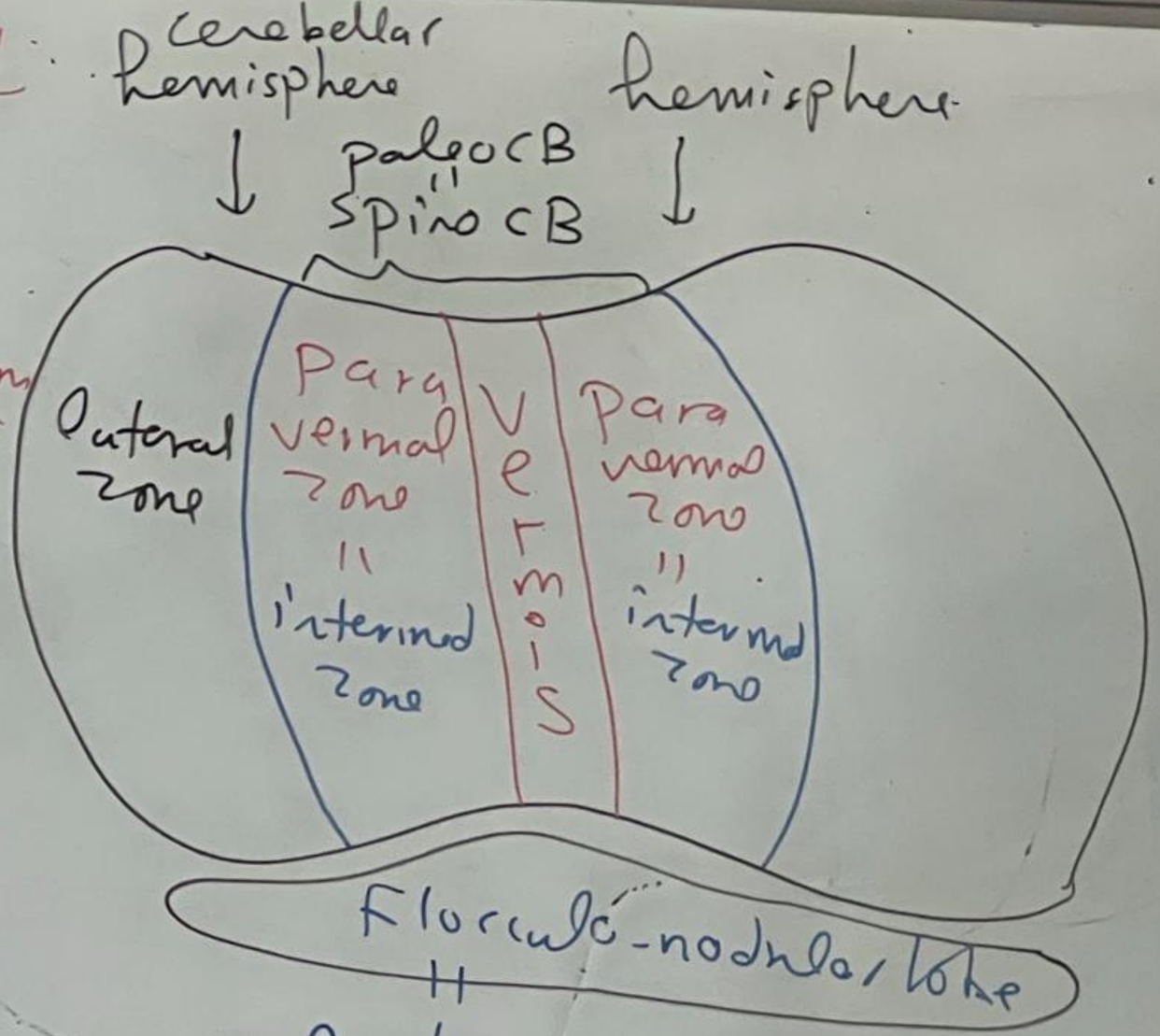
2- feed back signals

Mod(inh) = RTA

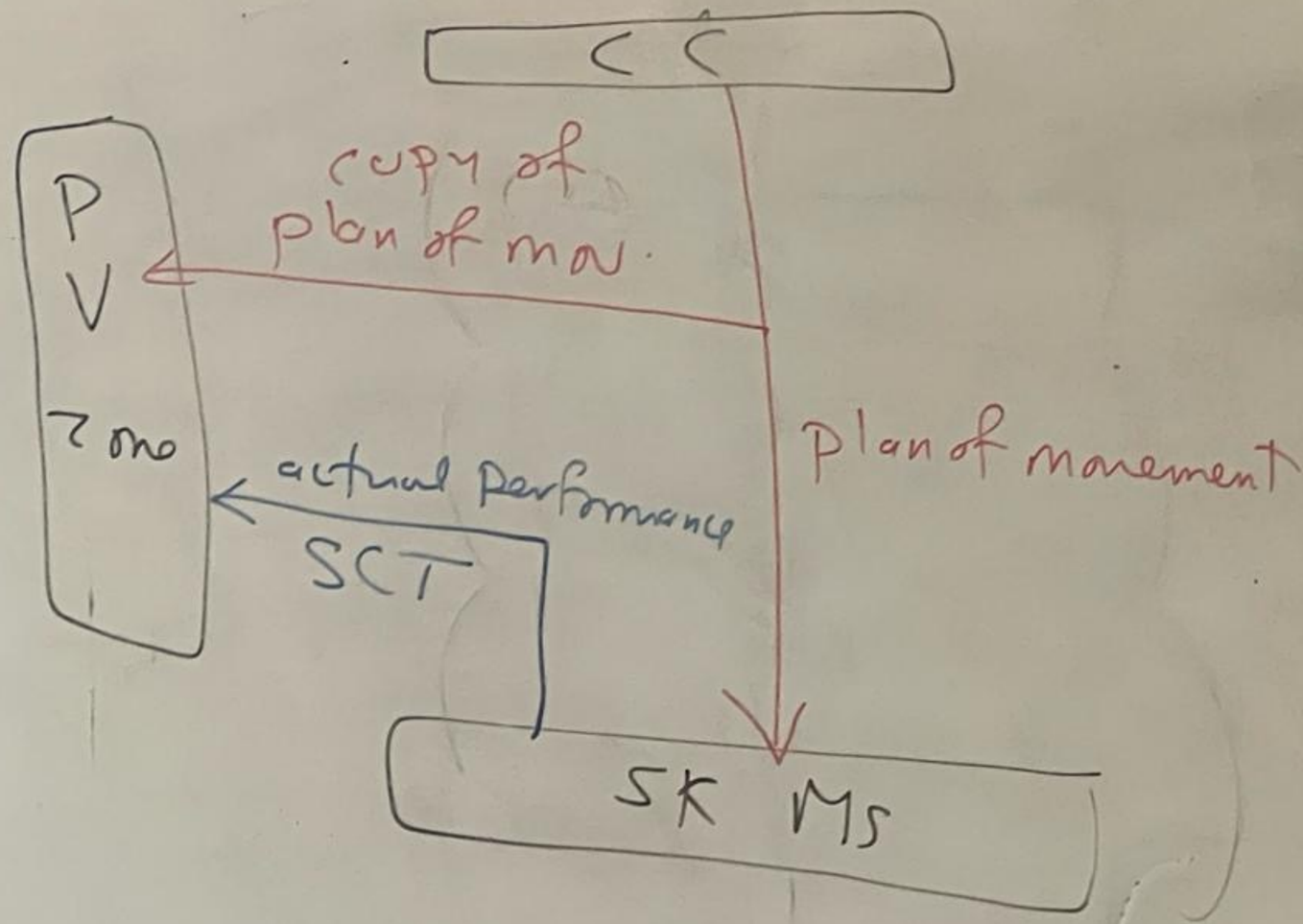
Afferent

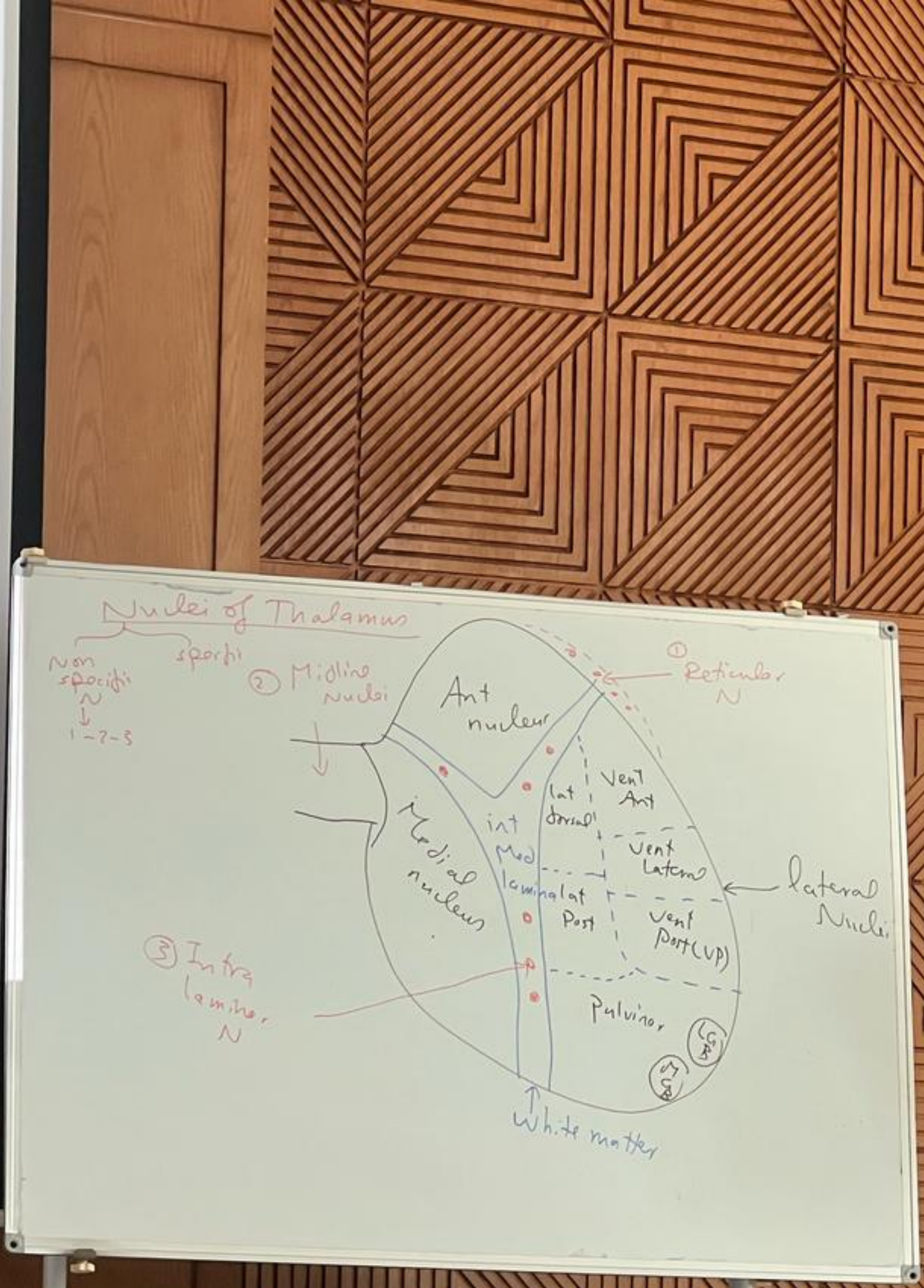

1
cereb cortex
2
Rel Nucl
lat CST
spino
CB
copy
Plan of movement
cortico-
Ponto-cerebellar pathway
pontine nucleus
actual performance
3
SCT
Sk. Muscles

Functionally

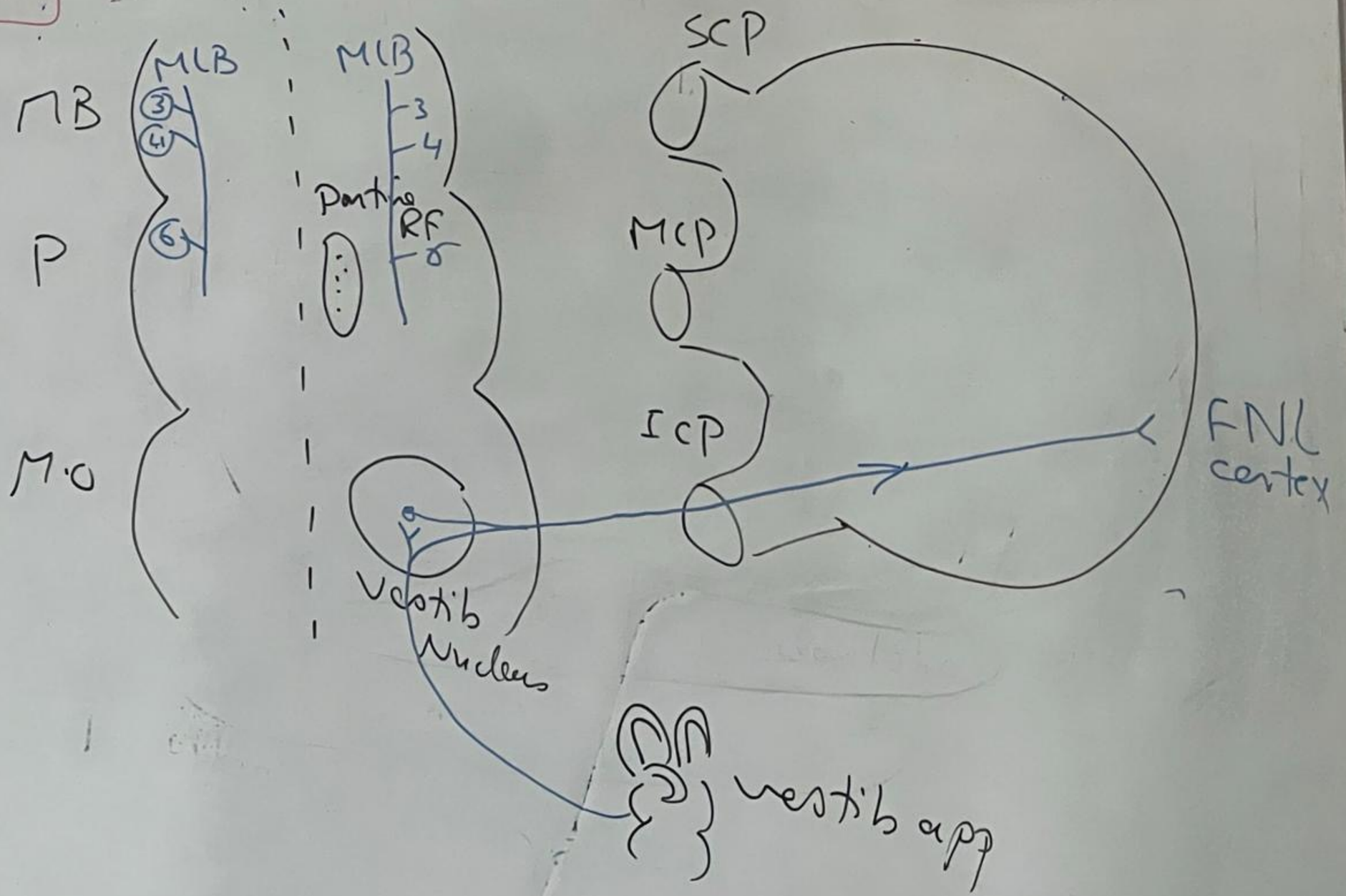


① Comparator and error correction




Nuclei of Thalamus
Non specific
N
1-2-3
specific
② Midline Nuclei
Ant nucleus
Medial nucleus
int Med lamina
lat dorsal
Vent Ant
Vent Lateral
lat Post
Vent Post (VP)
Pulvinar
① Reticular N
lateral Nuclei
③ Intra laminar N
White matter

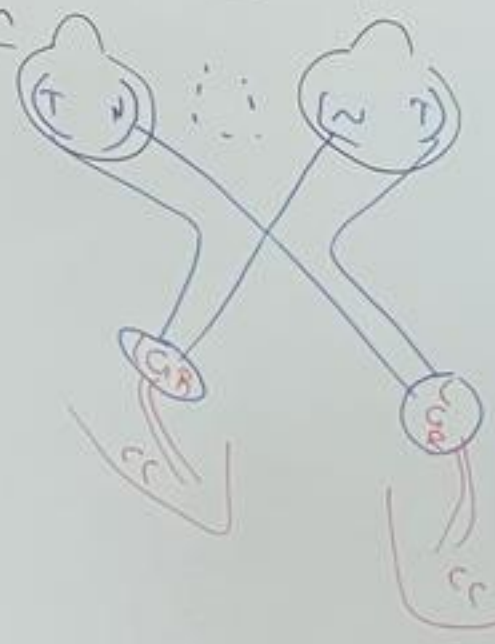
Afferent


Reduncle
SCP
MCP
ICP
MLB
MLB
MB
P
M.O
3
4
6
Pontine
RF
Vestib
Nucleus
FNL
cortex
Vestib app

I) Sensory

a) Relay station → Somatic
→ special

Vision



Learning