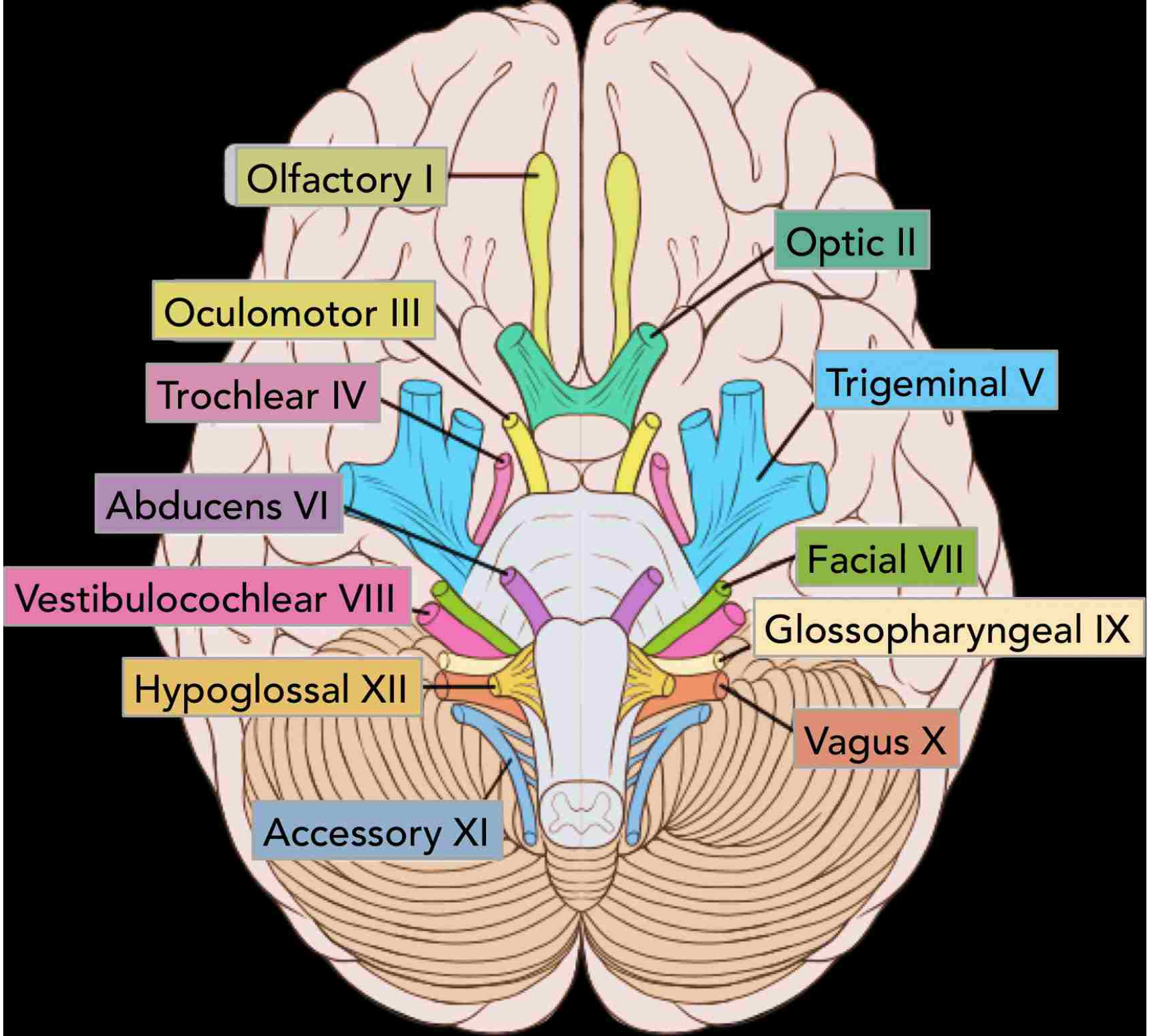

Olfactory I
Optic II
Oculomotor III
Trochlear IV
Trigeminal V
Abducens VI
Facial VII
Vestibulocochlear VIII
Glossopharyngeal IX
Hypoglossal XII
Vagus X
Accessory XI

7F gg

A bc

⑥ Ab ⑪ Ac

* Cranial Nerves –

→ 12 Pair of cranial Nerves –

1) Olfactory N.] Sensory] Fore Brain
2) Optic N.
3) Oculomotor N.] Motor] Mid Brain
4) Trochlear N.
5) Trigeminal N. – Mixed] Pons
6) Abducens N. – Motor
7) Facial N. – Mixed
8) Vestibulocochlear N. – Sensory – Pons + Medulla
9) Glossopharyngeal N.] Mix] Medulla
10) Vagus N.
11) Accessory N.] Motor
12) Hypoglossal N.

Sensory	—	2	Fore Brain
Motor	—	2	Mid Brain
Mix – Motor – Mix	—	3	Pons
Sensory	—	1	P + M.O
2 × Mix – 2 × Motor		4	M.O

Teacher's Signature.....

→ 3-12 cranial N. arise to Brain Stem, In Ventral side
★ CN.4 arise in Dorsal side

	Name	function	Origin
1)	Olfactory.	- smell	Olfactory Bulb (fore Brain)
2)	Optic	- vision	(Occipital lobe Back of eyeball)
3)	Oculomotor	- eyeball movement - Pupil constriction	Mid Brain -
5)			
4)	Trigeminal	V1 - Sensory Information V2 - " V3 - S :- " M :- Chewing	
		- Touch, Pain, Temperature - Chewing, facial expression	
5)	4) Trochlear	- eyeball movement lateral turning	
6)	Abducents	- eyeball movement lateral Turning	
7)	facial	- facial expression, movement of Neck, tongue	
8)	Vestibulo Cochle-	- Hearing & equilibrium	
9)	Glossopharyn-	- Tast & elevation of Larynx.	
10)	Vagus -	- Sensation of Visceral Visceral movement	
11)	Accessory	Movement of Pharynx	
12)	Hypoglossal	Neck, Shoulders, Tounge.	

Teacher's Signature.....

Origin

CN. 1 → Olfactory Bulb

CN. 2 → Retina (Back of eye)

→ Forebrain (Cerebrum)

Brain / Stem

CN. 3 → Ant. Surface

CN. 4 → Post. Surface

→ Mid Brain

CN. 5 → S. - Face, M. - Chewing

CN. 6 → eye muscle

CN. 7 → S. - Tast Buds - M.

CN. 8 → ear parts

→ Pons.

CN. 9 →

CN. 10 → (Longest N. Cranial)

CN. 11 →

CN. 12 →

→ M.O

Teacher's Signature.....

* Opening of SKULL

1) Optic canal → CN. II

2) Superior orbital fissure → CN. 3
4
5 (V1) Opthalmic
6

3) Foramen Rotundum → CN. 5 (V2) Maxillary

4) Foramen ovale → CN. 5 (V3) Mandibular

5) Internal acoustic meatus → CN. 7
8

6) Jugular foramen → CN. 9
10
11

7) Hypoglossal canal → CN. 12

Teacher's Signature

(*) Trigeminal N. (CN.5)

V1 - Ophthalamic N.

- Sensory N.

Function- control for Head skin, scalp, eyelid, Nose Para Nasal sinus.

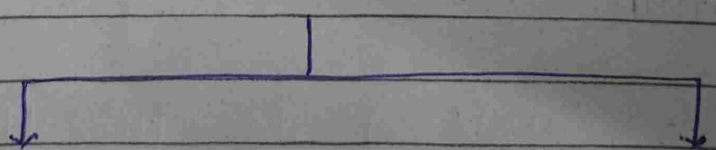
V2 - Maxillary

- Sensory N.

Function - Sensory function of face over Maxilla.
- Upper Jaw Teeth.
- Mucous membrane of Nose, Palate.

V3 - Mandibular N.

- Mixed N.



Motor N.

- Tensor Tympani
- Muscle of Mastication
- Tensor veli Palatine

Responsible for chewing.

Sensory N.

- Skin of cheek.
- Skin over Mandible & side of Head
- TMJ & lower Jaw

Teacher's Signature

(*) Facial Nerve (CN. 7)

- Mixed N.

Motor N.

- Arise from Pons and controls
  - contraction of facial muscles
    - Stylohyoid
    - Stapedius

Sensory N.

- Sensory Axons from Taste Buds of Tounge (Ant. 2/3)
- Muscle of face & Scalp, skin in ear canal.

→ Also acts as Parasympathetic Nerve and supplies
- Lacrimal gland
- Nasal gland
- Palatal gland
- Sub inguinal gland
- Sub mandibular gland

Teacher's Signature

⊛ Vestibulo-cochlear N. (CN: 8)

- Sensory N.

Vestibular Branch	Cochlear Branch
- Arises from semicircular canal; saccule & utricle of Inner ear	- Arise of organ OF corti
↓ Vestibular ganglia	↓ Spiral ganglia
↓ M.O.	↓ M.O.
↓ Impulses for equilibrium	↓ Impulse for Hearing

⊛ Hypoglossal N. (CN-10)

- Motor N.

- Arise from Hypoglossal Nuclei in M.O

↓

Impuls for speech + swallowing

Teacher's Signature

(*) Glossopharyngeal N. (CN. 9)

- Mixed N.

Motor N.

- arise to M.O

Parotid gland
(Saliva secretion)

Sensory N.

- Taste Bud of Post. 1/3 of Tongue

Swallowing muscles

Sup. & Inf. ganglia

M.O.

(*) Accessory N. (CN. 11)

- Motor N.

arises from 1st 5 cervical spinal N.
(C1 to C5)

Carries impulses to Sterno-cleido mastoid & Trapezius
(Head movement & coordination)

Teacher's Signature.....

(*) Vagus N. (CN. 10)

- Mixed N.

Motor N.

- arise from
  a) Skine of external ear.
  b) Taste Buds of epiglottis & Pharynx
  c) Neck & Throat
  d) Arch of aorta
  e) Most of thoracic & abdominal organs

M.O

Pons

Sensory N.

- arise from M.O

Muscle of Pharynx, Larynx, Soft Palate

use in swelloing & vocalisation

→ Also acts as Parasympathetic N.

Supplies → Lungs, Heart, GIT, Respiratory Tract, Oesophagus etc

Teacher's Signature.....