

★Brain Stem Internal Structure★

*This Lecture is Done By:
Samar Shetawe –Ayan Hussain*

**Identify the
Pointed Areas:.*

1-Cerebral
Hemisphere.

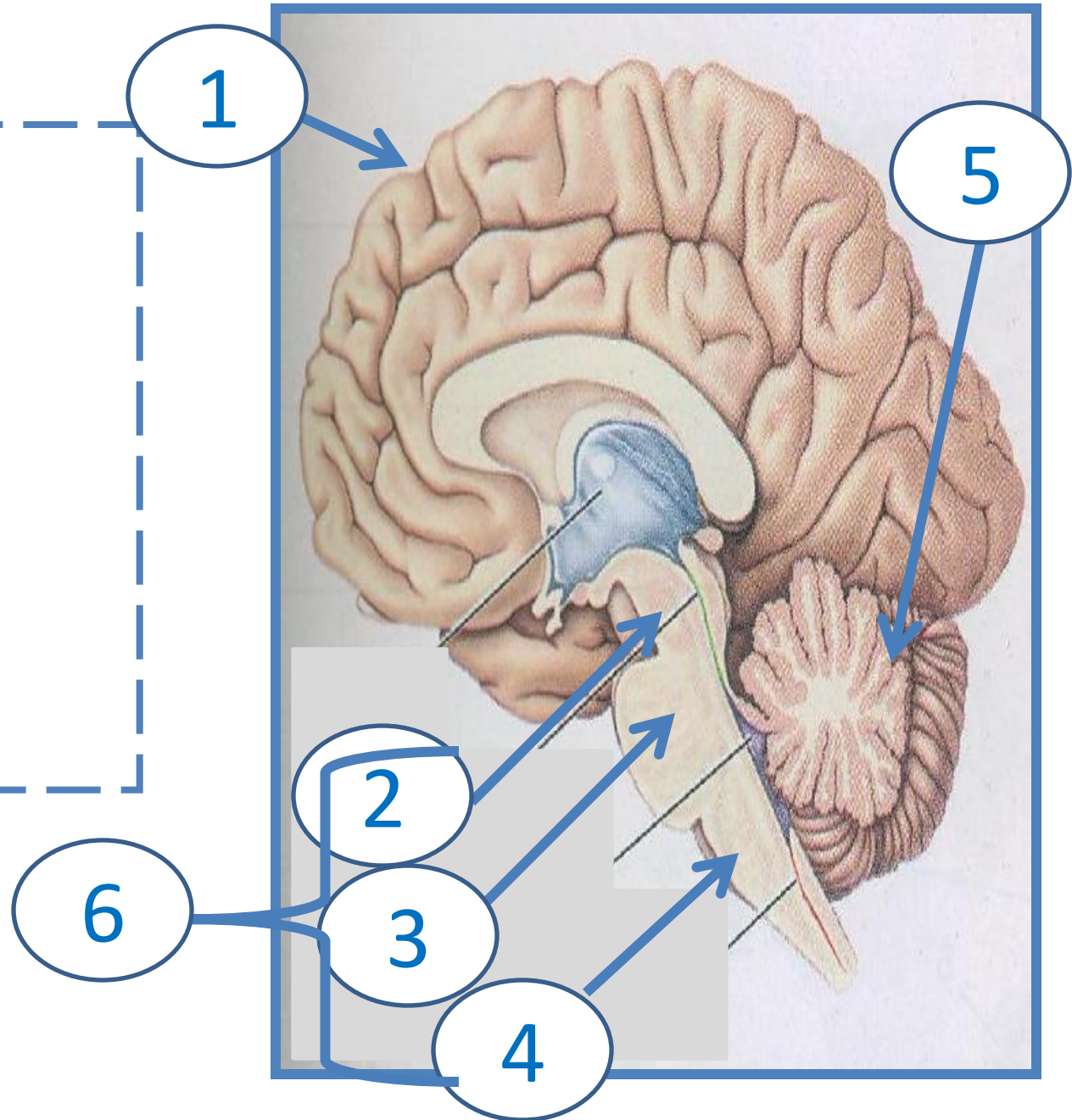
2-Midbrain.

3-Pons.

4-Medulla
Oblongata .

5-Cerebellum.

6-Brain Stem.



**Identify the Pointed Areas:.*

1-Diencephalon.

2-Cerebral Aqueduct.

3-4th Ventricle.

4-Central Canal of the spinal cord.

**From where CSF is formed?*

CSF fluid is formed in the choroid plexus of the ventricles.

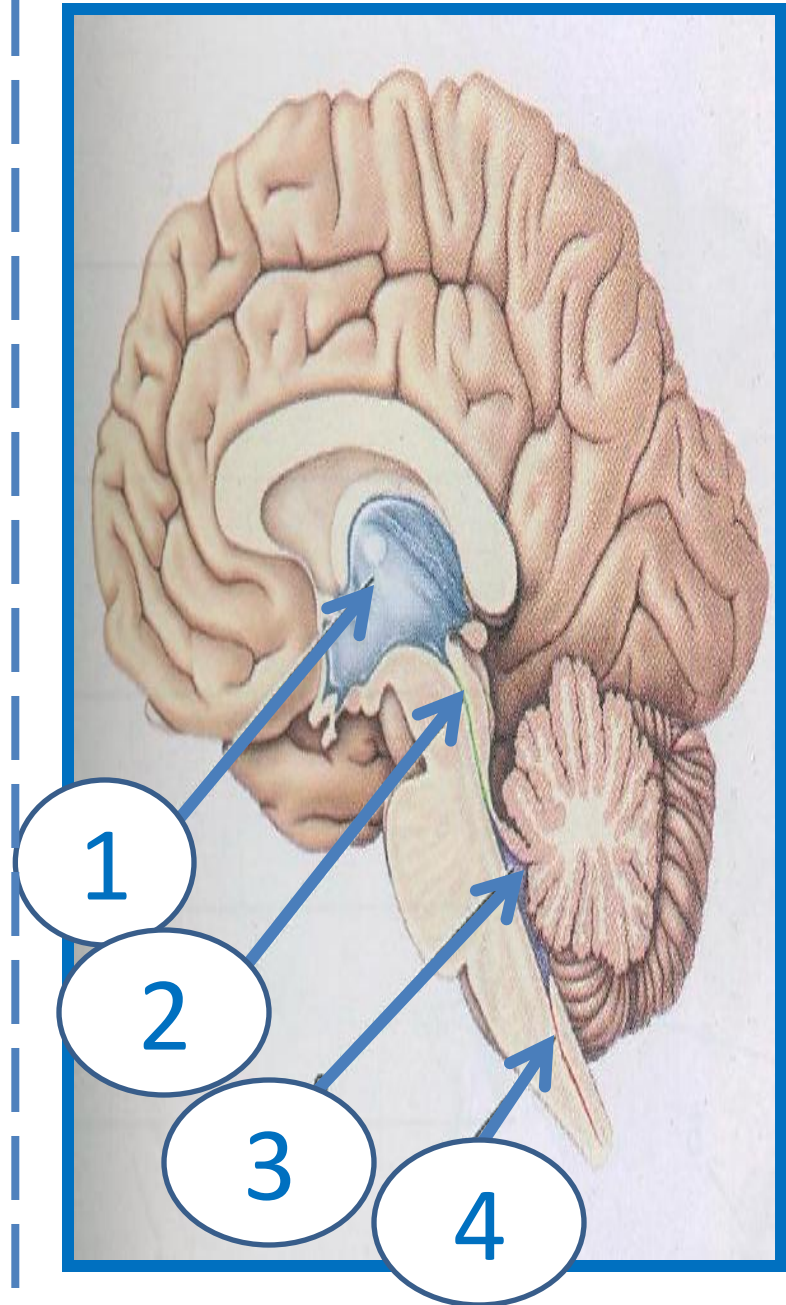
**how are 3th and 4th ventricle connected?*

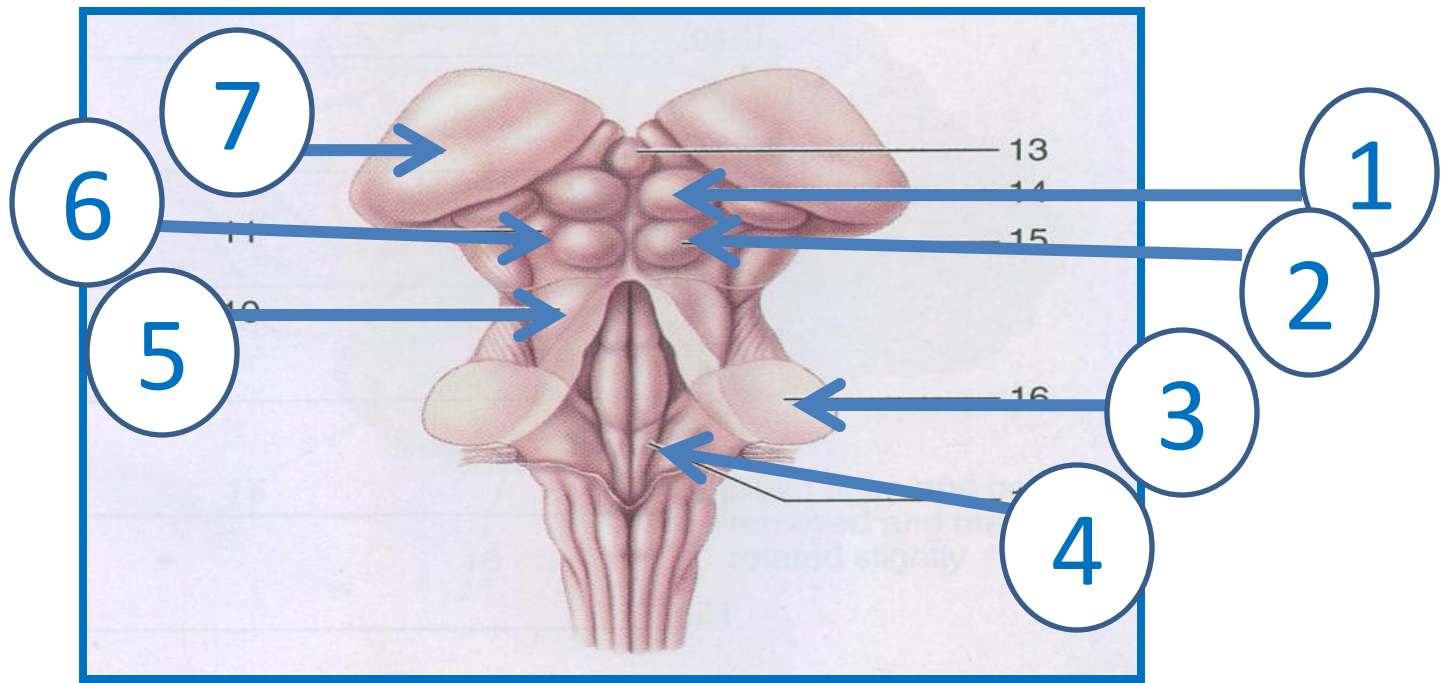
By the cerebral aqueduct

**How are the lateral and 3rd ventricle connected?*

By the interventricular foramen

**Obstruction in the CSF pathway will lead to hydrocephalus.*





**Identify the Pointed Areas:.*

1- Superior colliculus

5-Pons

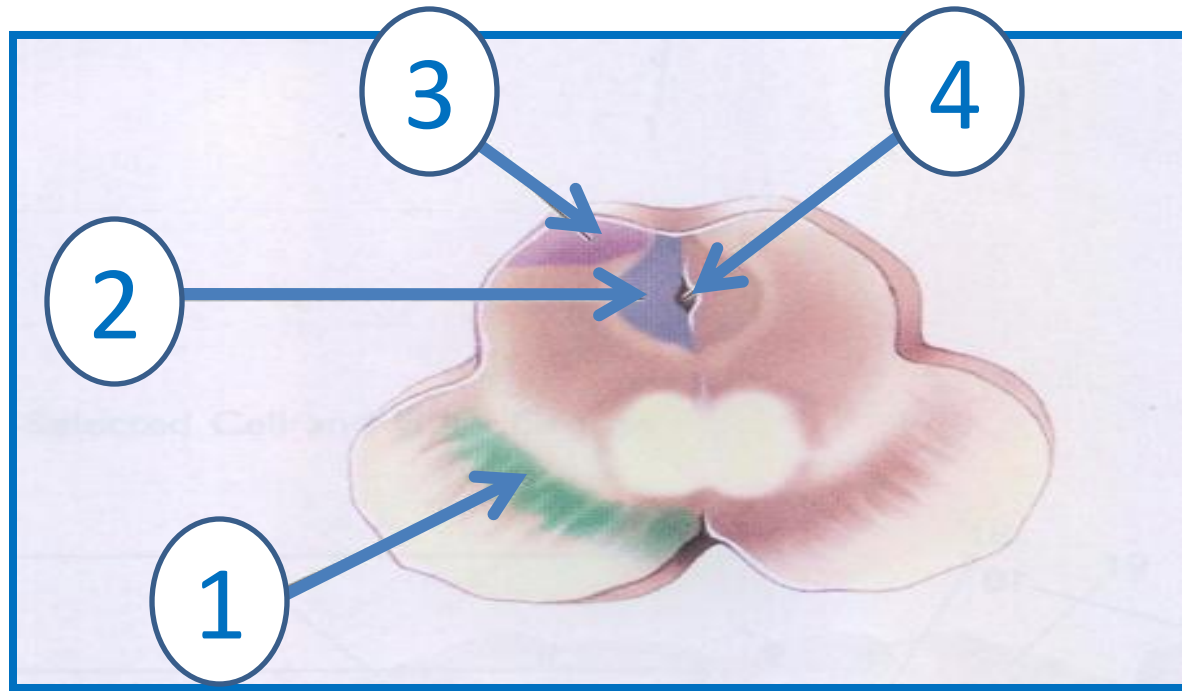
2- Inferior colliculus

6-Midbrain

3- Cerebellar peduncle

7-Thalamus

4-Fourth ventricle (floor)



**Identify the Pointed Areas:.*

1-Substantia nigra

2-Periaqueductal gray matter

3-Inferior colliculus

4-Cerebral aqueduct

IDENTIFY THE LEVEL OF THIS SECTION?

Caudal Midbrain.

**Identify the Pointed Areas:.*

1-Cerebral aqueduct

2-Superior colliculus

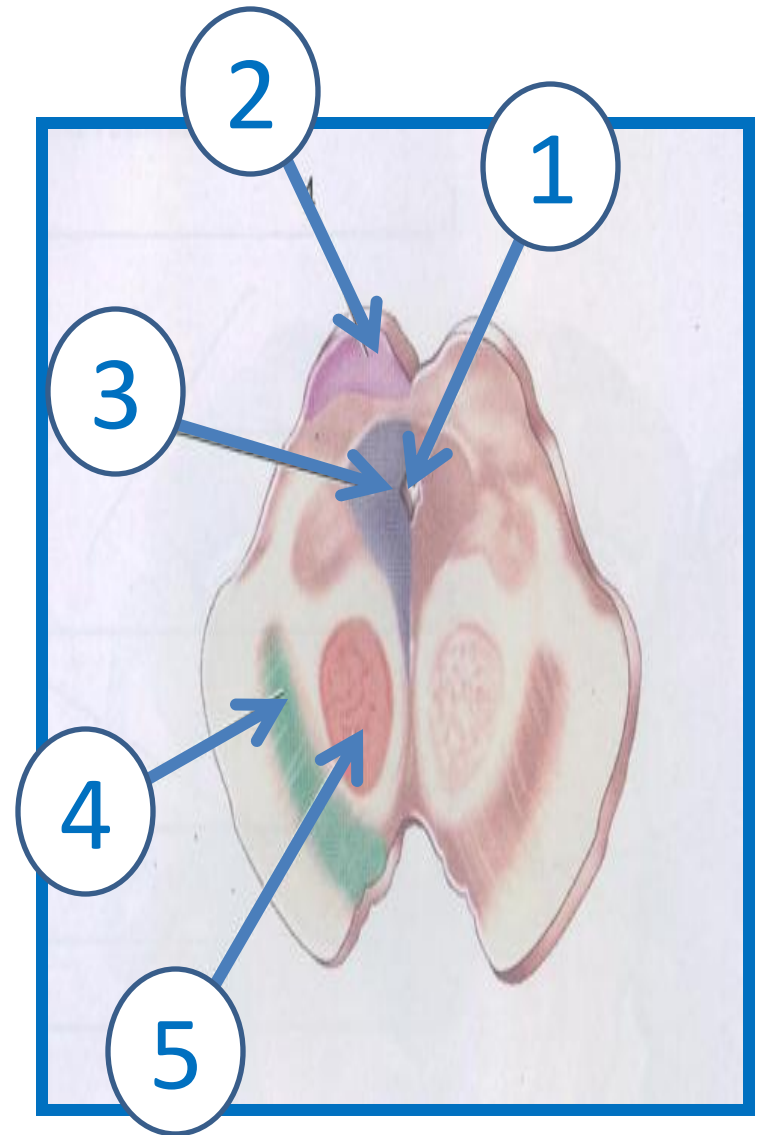
3-Periaqueductal gray matter

4-Substantia nigra

5-Red nucleus

**IDENTIFY THE LEVEL OF
THIS SECTION?**

Rostral Midbrain



**Identify the Pointed Areas:.*

1-Fourth ventricle

2-vestibular nucleus

3-Nucleus of the solitary tract

4-Medullary reticular formation

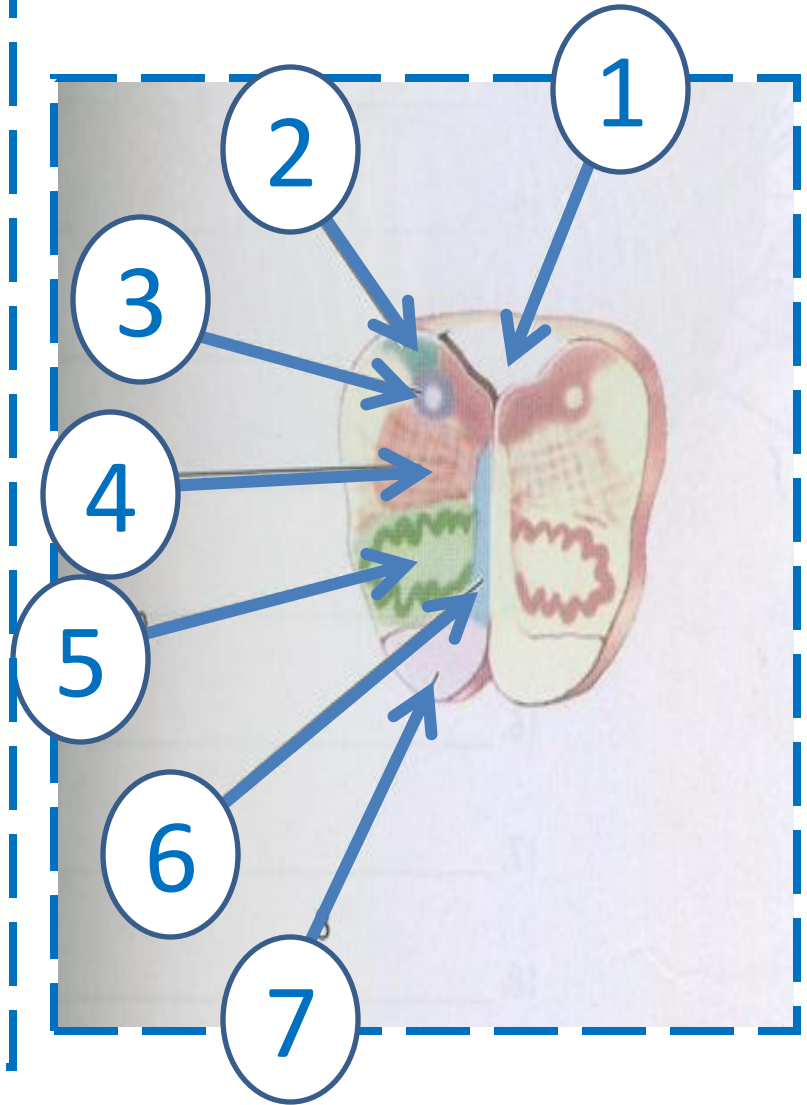
5-Inferior olive

6-Medial lameniscus

7-Medullary Pyramid

***IDENTIFY THE LEVEL OF
THIS SECTION?***

open medulla-Rostral Medulla.

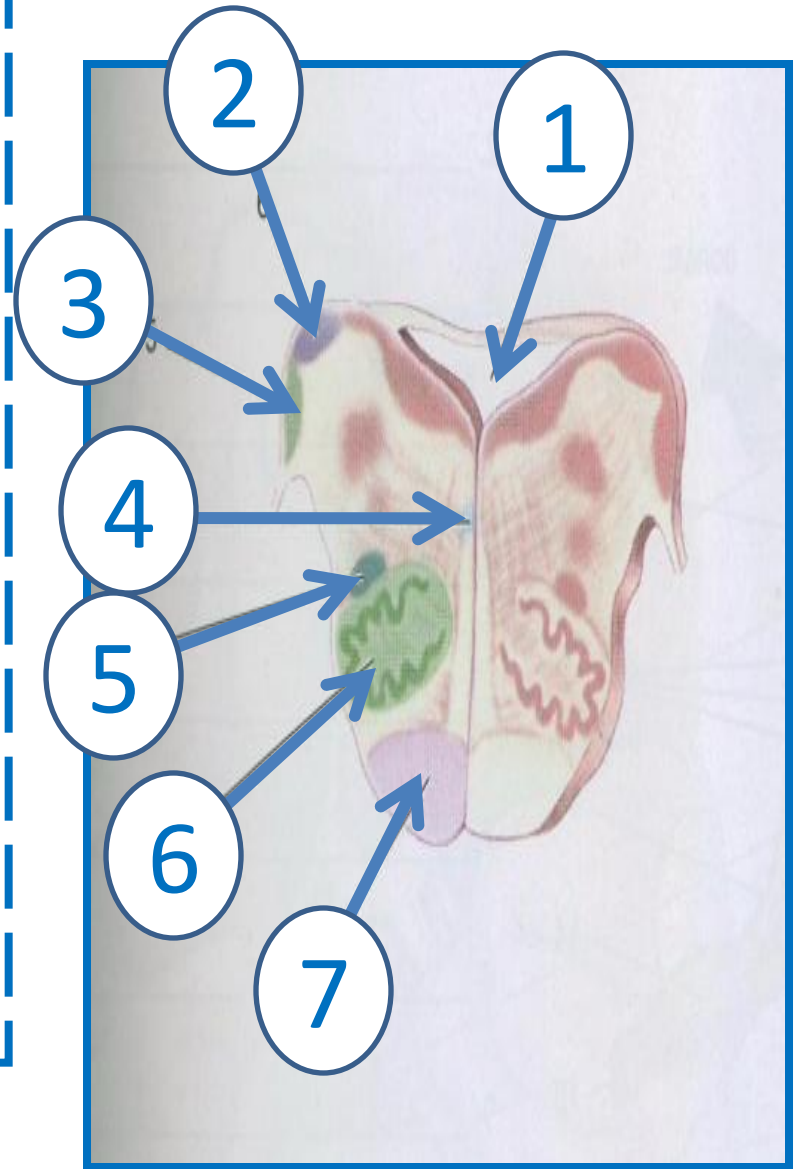


**Identify the Pointed Areas:.*

- 1- Fourth ventricle*
- 2-Dorsal cochlear nucleus*
- 3-Ventral cochlear nucleus*
- 4-Raphe nucleus*
- 5-Superior olive*
- 6-Inferior olive*
- 7-Medullary pyramid*

***IDENTIFY THE LEVEL OF
THIS SECTION?***

Mid Medulla

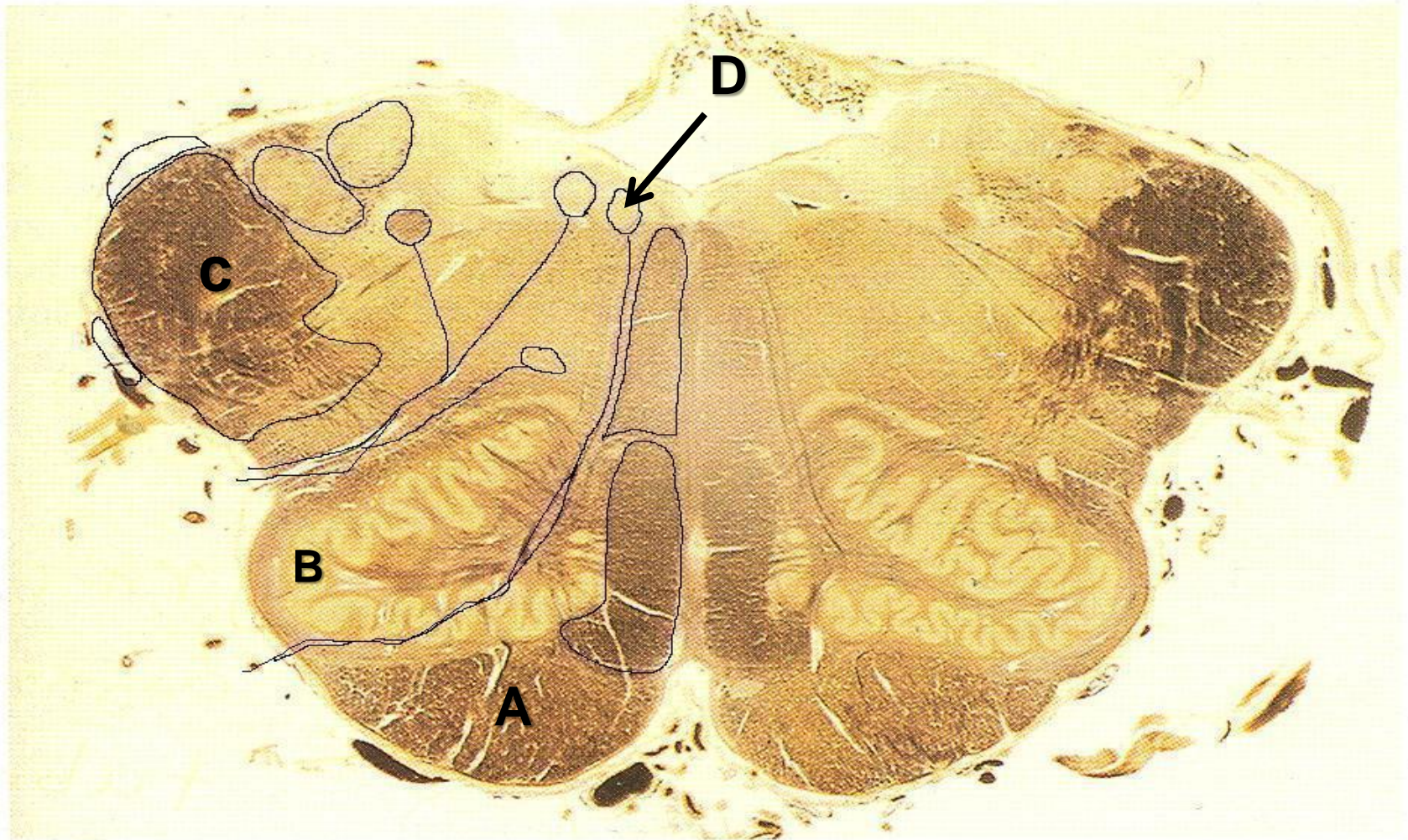


Mention the artery supplying A. (\ *Vertebral artery*

Mention the most important connection to B. (\ *Cerebellum*

Identify C. (\ *Inferior cerebellar peduncle*

Mention the type of D. (\ *General somatic efferent*



Identify the section & its level. (\ *Midbrain, level of superior colliculus*
Mention one connection to A. (\ *Spinal cord, thalamus*
Mention the name of one type of fibers passing in B. (\ *Corticospinal*

