

PHTY 126 - Neuromuscular Studies 1

Scenario 4 - Formative Questions

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Open Ended Question

What are the main functions of the cerebellum?

Quiz

Cerebellar Dysfunction

Unilateral lesions of the cerebellum cause symptoms on

- ☐ the same side of the body
- ☐ the opposite side of the body

Tremors resulting from cerebellar lesions are typically observed during

- ☐ rest
- ☐ movement

The slurring of speech observed with cerebellar dysfunction is called

☐ dysarthria

☐ dysphagia

Open Ended Question

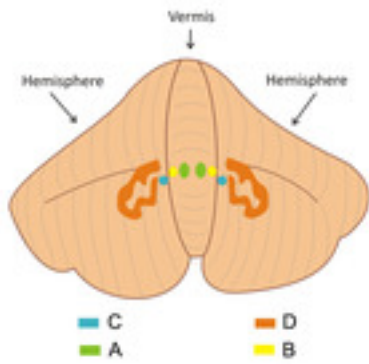
The cerebellum receives information from....?

Poll

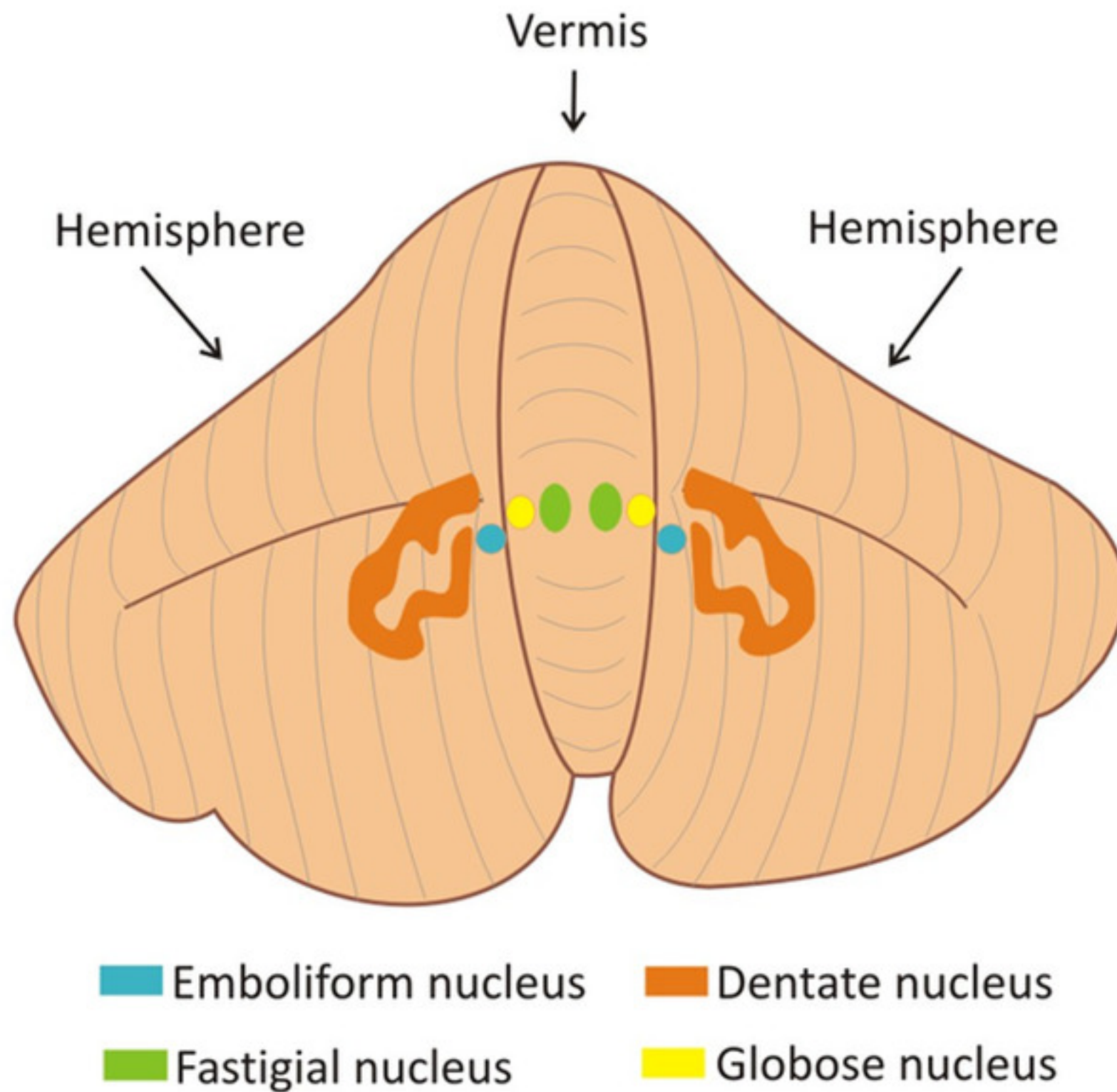
The inferior cerebellar peduncle is a nerve pathway that directly communicates with

- ☐ the Pontine nuclei
- ☐ the Thalamus
- ☐ the vestibular & reticular nuclei
- ☐ the Corticospinal tract
- ☐ the Internal capsule

Open Ended Question



Identify each of the nuclei labelled A to D



Deep Cerebellar Nuclei

Dentate Nucleus

- Influences the coordination of voluntary movements.
- Sends commands & information to the motor and premotor areas in the forebrain

Emboliform & Globose Nuclei (AKA interposed nucleus)

- Axons leaving the emboliform exit through the superior cerebellar peduncle and reach the red nucleus.

Fastigial Nucleus

- The fastigial nucleus is part of the balance system. It receives input from the vestibular nuclei and contributes to vestibular neuronal activity.

Quiz

Meniges

The arachnoid mater is

- ☐ separated from the dura by the subdural space.
- ☐ closely adherent to the surface of the brain.
- ☐ separated from the pia mater by the cerebral aqueduct
- ☐ the outermost menigeal membrane.

Quiz

CSF

CSF is produced by the choroid plexus

☐ True

☐ False

Within the brain CSF is located within the ventricles and the subarachnoid space


☐ True

☐ False

CSF is constantly produced and absorbed

☐ True

☐ False

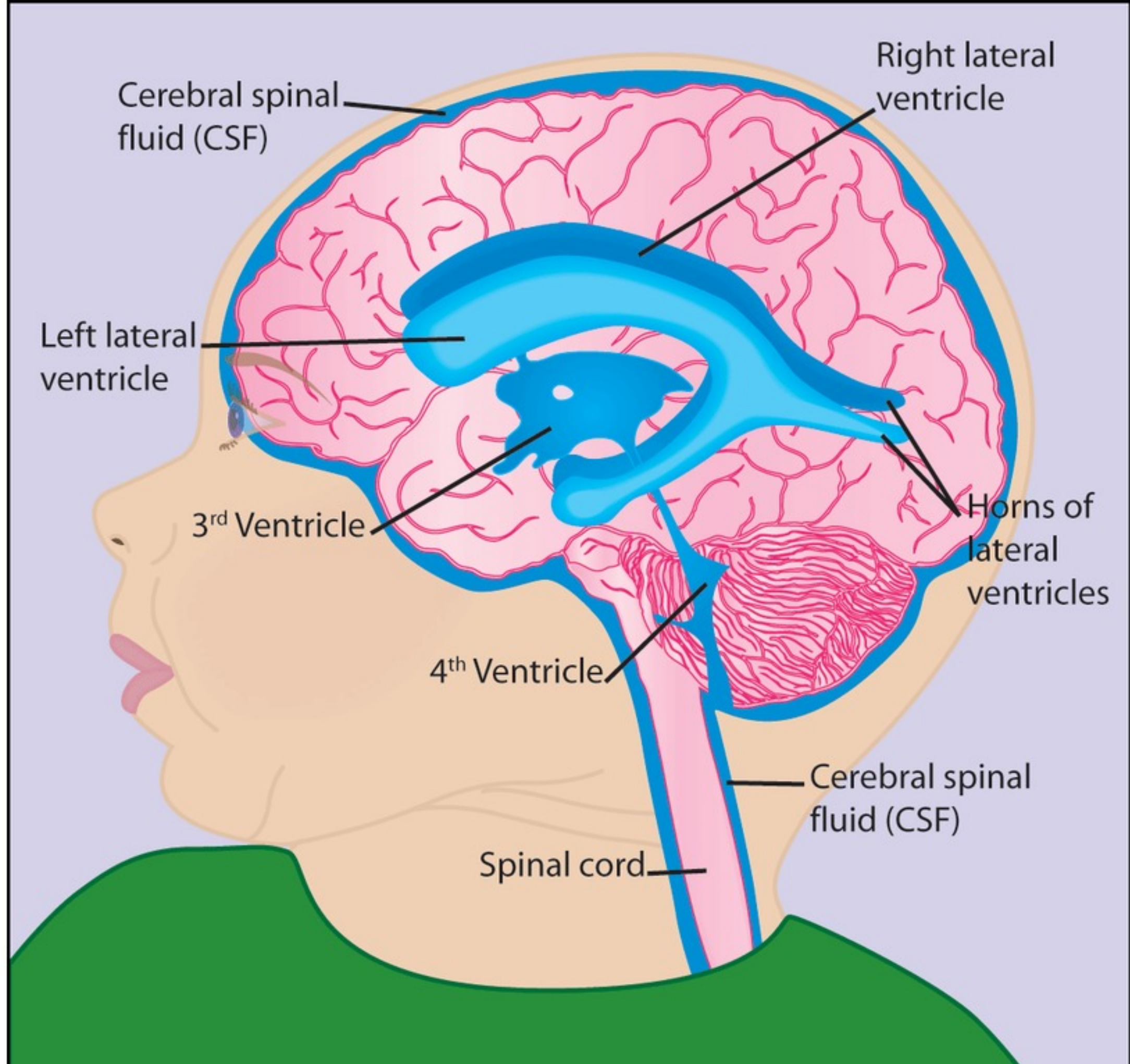


Quiz

ventricular system

The central canal of the spinal cord is continuous with the ventricular system of the brain. It opens out into the:

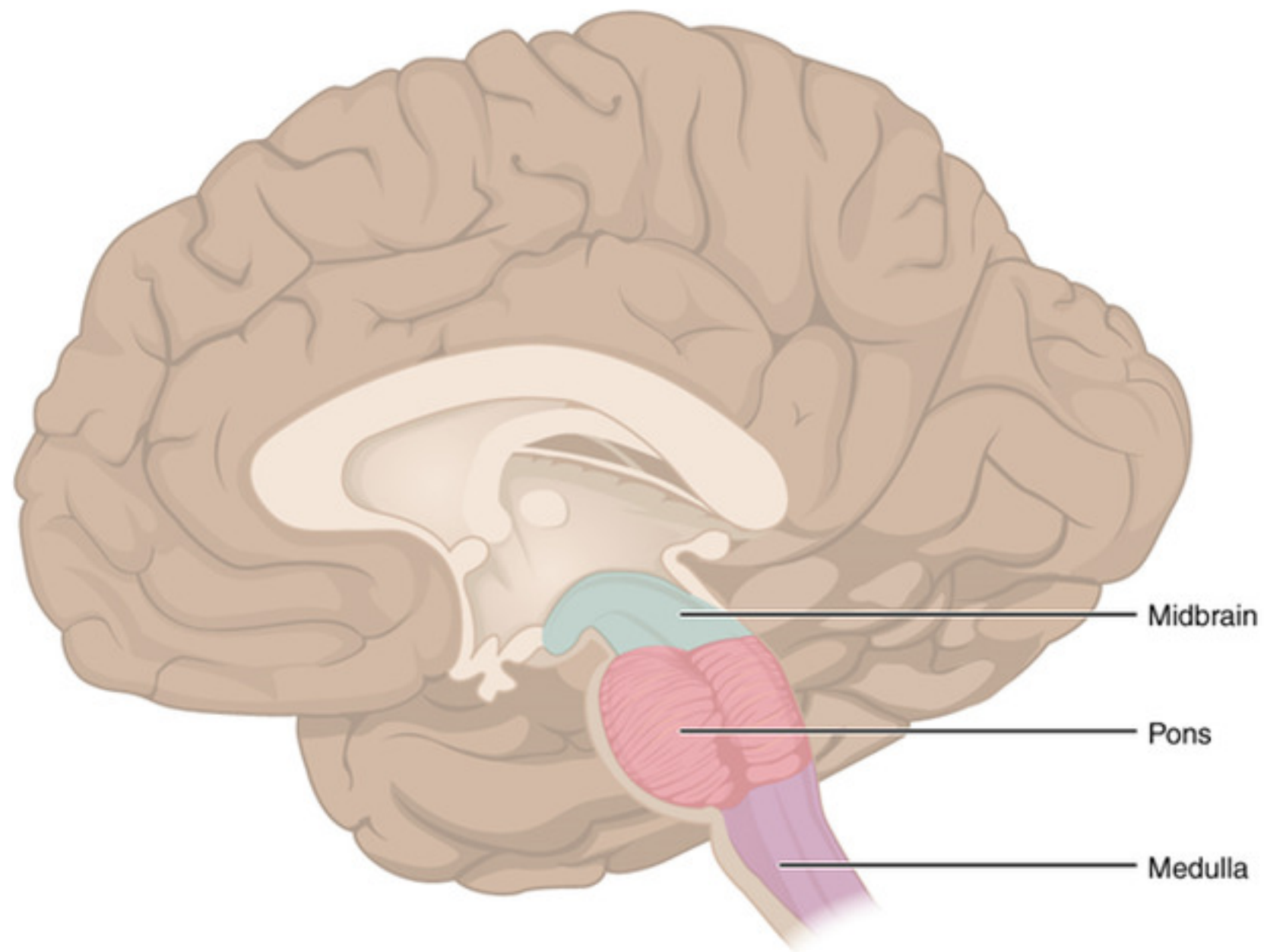
- ☐ Subarachnoid space
- ☐ Lumbar cistern
- ☐ Lateral sinus
- ☐ Third ventricle
- ☐ Fourth ventricle



Open Ended Question


Name the three structures that make up the brainstem and state one specific role played by each structure.

Brainstem



Open Ended Question

The reticular formation is a complex matrix of nuclei, motor/sensory fibres and interneurons that run throughout the length of the brainstem. List 2 functions of the reticular formation.



Quiz

Cranial Nerves

There are 12, bilaterally paired cranial nerves.

☐ True

☐ False

All cranial nerves contain some motor fibres

☐ True

☐ False

Cranial nerves are classified as peripheral nerves

☐ True

☐ False

Open Ended Question

What is the name of cranial nerve X and what is it mainly responsible for?



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