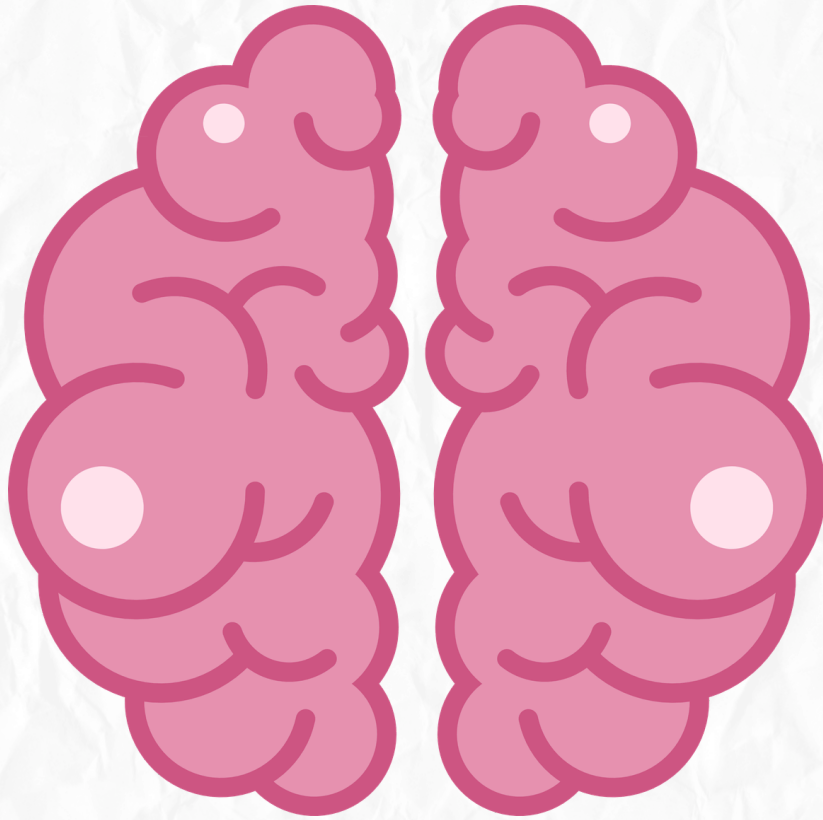


Neuroanatomy

Quiz time



Functional areas of the
brain and Basal Ganglia



1. The Primary Motor Area (Area 4) is located in which gyrus?

- A) Postcentral gyrus
- B) Precentral gyrus
- C) Superior frontal gyrus
- D) Middle frontal gyrus

Answer: B) Precentral gyrus

2. Which area is responsible for the movement of the larynx and tongue during speech?

- A) Frontal eye field (Area 8)
- B) Wernicke's area (Area 22)
- C) Broca's area (Areas 44, 45)
- D) Premotor area (Area 6)

Answer: C) Broca's area (Areas 44, 45)

3. The Frontal Eye Field (Area 8), concerned with conjugate eye movements, is found in the:

- A) Inferior frontal gyrus
- B) Middle frontal gyrus
- C) Superior frontal gyrus
- D) Prefrontal cortex

Answer: B) Middle frontal gyrus

4. Which functional area is responsible for "Stereognosis" (recognizing objects by touch)?

- A) Primary somatosensory cortex (Areas 3, 1, 2)
- B) Somatosensory association cortex (Areas 5, 7)
- C) Primary visual area (Area 17)
- D) Primary auditory area (Areas 41, 42)

Answer: B) Somatosensory association cortex (Areas 5, 7)

5. The Primary Visual Area (Area 17) is located in the occipital lobe, specifically in the:

- A) Cuneus and lingual gyri (walls of calcarine sulcus)
- B) Superior occipital gyrus
- C) Lateral occipital gyrus
- D) Angular gyrus

Answer: A) Cuneus and lingual gyri (walls of calcarine sulcus)

6. Which structure is a large, C-shaped mass of grey matter that follows the curve of the lateral ventricle?

- A) Lentiform nucleus
- B) Amygdaloid body
- C) Caudate nucleus
- D) Claustrum

Answer: C) Caudate nucleus

7. The Lentiform Nucleus is subdivided into the Putamen and Globus Pallidus by the:

- A) Internal capsule
- B) External capsule
- C) Medullary lamina
- D) Corpus callosum

Answer: C) Medullary lamina

8. The "Corpus Striatum" is a term used to describe which two nuclei together?

- A) Caudate and Lentiform nuclei
- B) Putamen and Globus pallidus
- C) Claustrum and Amygdala
- D) Thalamus and Caudate nucleus

Answer: A) Caudate and Lentiform nuclei

9. Which part of the basal ganglia is a thin layer of grey matter situated between the lentiform nucleus and the insula?

- A) Amygdaloid body
- B) Claustrum
- C) Globus pallidus
- D) Tail of caudate nucleus

Answer: B) Claustrum

10. Damage to the "Wernicke's Area" (Area 22) primarily results in:

- A) Loss of voluntary movement
- B) Inability to understand spoken or written language
- C) Loss of vision in one eye
- D) Inability to produce speech (motor aphasia)

Answer: B) Inability to understand spoken or written language