

exam-1-study-guide

Rick Gilmore

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Resources

- Quiz 1 Answer Key

Topic outline

- History
 - Aristotle vs. Galen
 - Descartes

Topic outline

- Methods
 - Structural vs. Functional
 - High spatial/temporal resolution vs. low

Topic outline

- Neuroanatomy
 - Directional terms, slice planes
 - Forebrain, midbrain, hindbrain
 - Cortical landmarks
 - Supporting structures

Topic outline

- Glial cell types & functions
- Why are neurons special
- Basic neuronal anatomy

Topic outline

- The resting potential and the balance of forces
- The action potential

The image illustrates what type of slice?

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- Sagittal
- Horizontal
- Coronal
- Axial

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All of the following structures can be seen in the figure EXCEPT

- Cerebellum
- Corpus callosum
- Lateral ventricles
- Cerebral cortex

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The figure illustrates which imaging method?

- CT
- PET
- Magnetoencephalography (MEG)
- MRI

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Descartes thought that this structure was the place where the soul influenced the human body's voluntary movements.

- The pons
- The pituitary gland
- The pineal gland
- The reflexive complex

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The tongue is _____ with respect to the nose.

- Inferior
- Superior
- Dorsal
- Medial

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Auditory information enters the CNS via the 8th (VIII) cranial nerve and projects through this sound-responsive nucleus of the midbrain tectum.

- lateral geniculate nucleus
- striatum
- substantia nigra
- inferior colliculus

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Neural degeneration in this midbrain structure is associated with Parkinson's Disease.

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- insula
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Electroencephalography (EEG) has _____ temporal resolution than functional MRI, but _____ spatial resolution.

- better; similar
- better; worse
- worse; better
- worse; similar

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Which of these landmarks separates the frontal from the parietal lobe?

- Lateral fissure
- Longitudinal fissure
- Anterior cingulate gyrus
- Central sulcus

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Gray matter is mainly composed of:

- Axons
- Cell bodies
- Myelin
- None of the above

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Which of these is NOT a component of the forebrain?

- Cerebral cortex
- Basal ganglia
- Hypothalamus
- Medulla

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Which brain lobe contains the primary and supplementary motor cortex?

- Frontal
- Temporal
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- Occipital

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During a threatening situation signals are sent through the amygdala to what brain structure that controls the ANS and the endocrine/hormal processes?

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Which of these of techniques relays on the hemodynamic response function in order to draw conclusions about brain activity?

- fMRI
- PET
- Ca++ Imaging
- EEG

Which of these of techniques relies on the hemodynamic response function (HRF) in order to draw conclusions about brain activity?

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What is the name of the area in the brain at the brainstem where the blood/brain barrier is thin?

- Tectum
- Area Postrema
- Medulla Oblongata
- Tegmentum

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Next time...

- Exam 1