# Neuroscience Exam #4 Neuroanatomy

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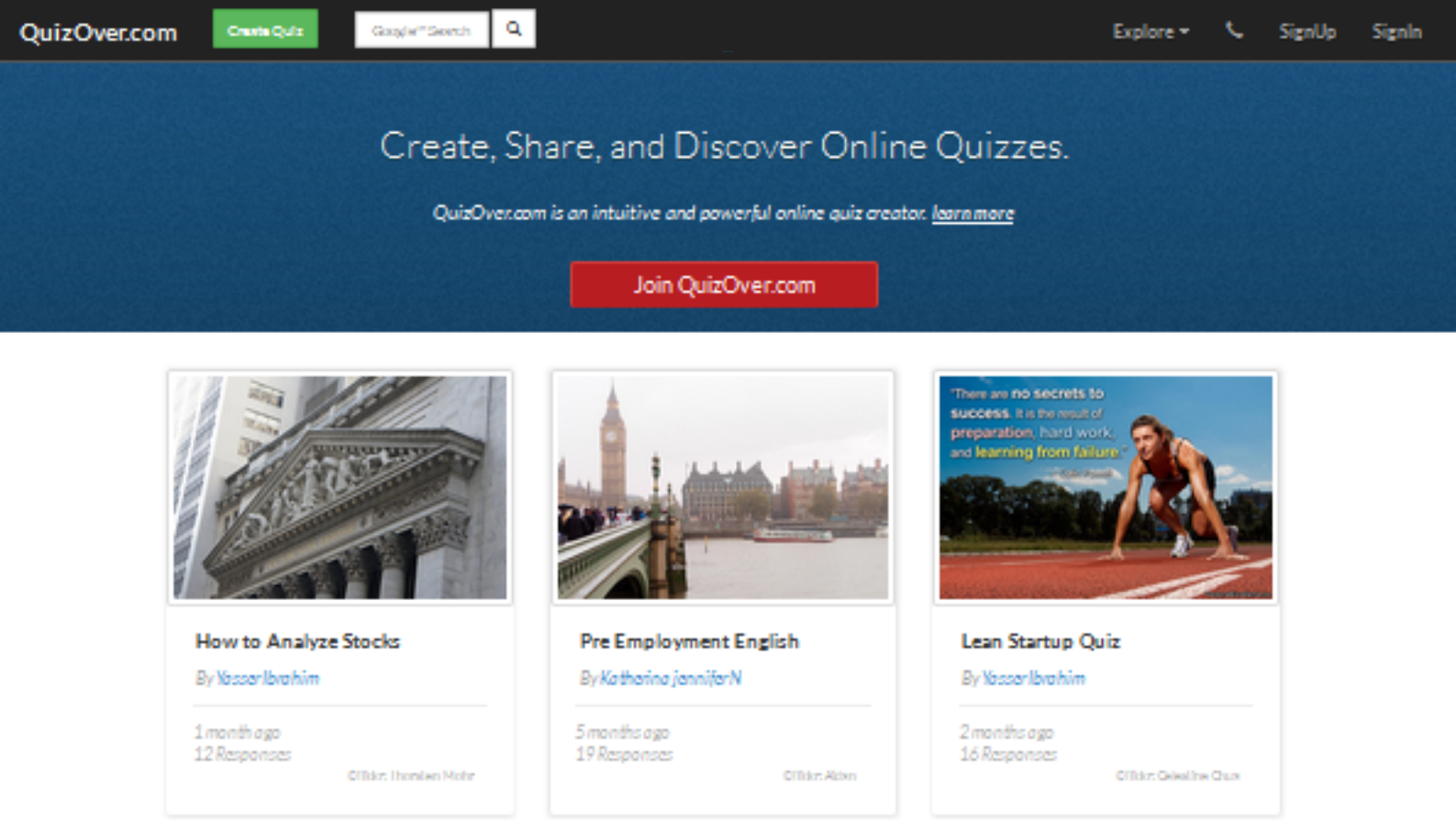


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# 4. Chapter: Neuroanatomy

## 1. Neuroanatomy Questions

# 4.1.1. (5 pt) Which of the following structures are CONTRALATERAL from the...

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(5 pt) Which of the following structures are CONTRALATERAL from the most relevant area of cerebral cortex?

Please choose only one answer:

- Medial lemniscus
- Lateral lemniscus
- Red nucleus
- Dentate nucleus
- Dentate gyrus

# 4.1.2. (5 pt) Which one of the following structures does not belong in thi...

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(5 pt) Which one of the following structures does not belong in this group?

Please choose only one answer:

- Nucleus cuneatus
- Nucleus of the spinal tract of V
- Mesencephalic nucleus of V
- Dorsal cochlear nucleus
- Olfactory bulb

# 4.1.3. (5 pt) You are examining a brain that has been cut in the sagittal ...

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(5 pt) You are examining a brain that has been cut in the sagittal plane.

Which of the following combinations of structures are you most likely to see on a single slice?

Please choose only one answer:

- Oculomotor nucleus, trochlear nucleus, facial nucleus
- Primary visual cortex, primary auditory cortex, primary motor cortex for the arm
- Dentate nucleus, septal nucleus, putamen
- Nucleus gracilus, hypoglossal nucleus, mamillary body
- Anterior nucleus of the thalamus, inferior colliculus, middle cerebellar peduncle

# 4.1.4. (5 pt) Which of the following combinations of structures would be i...

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(5 pt) Which of the following combinations of structures would be identified by staining for choline acetyl transferase (ChAT)?

Please choose only one answer:

- Upper motor neurons & lower motor neurons
- Trochlear nucleus and Edinger-Westphal nucleus
- Anterior horn cells and nucleus of Clarke's column
- Substantia nigra, pars compacta and raphe nuclei
- Substantia nigra, pars reticulata and ciliary ganglion neurons

# 4.1.5. (5 pt) Which of the following statements is the most accurate?

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(5 pt) Which of the following statements is the most accurate?

Please choose only one answer:

- Circadian rhythms depend on hypothalamic synthesis of melatonin
- The posterior limb of the internal capsule separates thalamus from hypothalamus
- The medial longitudinal fasciculus carries information from the hypothalamus to the brainstem
- The stria terminalis is a bidirectional connection between the hypothalamus and the amygdala
- Activity in the most anteromedial hypothalamus is associated with stress responses