

Quiz 1A 3. Cingulate Gyrus 1. The corpus callosum connects A) motor cortex to the spinal cord B) pons to cerebellum C) left and right hemispheres D) hippocampus to mammillary body 2. The primary sensory cortex for the hand is located in A) frontal lobe 4. Pituitary Gland B) superior temporal gyrus C) calcarine fissure D) postcentral gyrus 5. Pons

Quiz 1B

- 1. The cerebrospinal fluid is produced by the
- A) pineal gland
- B) choroid plexus
- C) arachnoid villi
- D) pyramidal tract
- 2. The primary motor cortex for the hand receives blood from
- A) middle cerebral artery
- B) posterior cerebral artery
- C) vertebral artery
- D) anterior spinal artery

3. Lateral Ventricle



4. Hippocampus

3. Dendrite

5. Lateral Sulcus

Quiz 2A

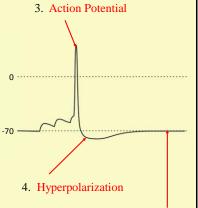
- 1. The neurons of the brain
- A) are separated from one another
- B) are far more numerous than glial cells
- C) replace themselves by replication
- D) have no nuclei
- 2. The hippocampus
- A) looks like a hippopotamus
- B) shows neurofibrillary tangles in Alzheimer's Disease
- C) receives its blood supply from the anterior cerebral artery
- D) is located in the occipital lobe

4. Axon Hillock 5. Myelin Sheath

or Schwann Cell

Quiz 2B

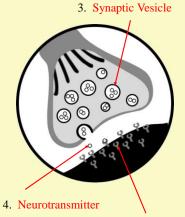
- 1. Compared to the outside, the inside of a resting neuron
- A) is positive
- B) has a higher concentration of potassium ions
- C) has a higher concentration of sodium ions
- D) contains fewer enzymes
- 2. Unmyelinated nerve fibers
- A) conduct impulses more slowly than myelinated fibers.
- B) are only present in peripheral nerves
- C) cannot regenerate their axons
- D) are primarily affected in multiple sclerosis



5. Resting Potential

Quiz 3A

- 1. Neurotransmitters
- A) are released from the postsynaptic neuron
- B) are produced in the thyroid gland
- C) generate action potentials
- D) alter ion channels in the postsynaptic membrane
- 2. Postsynaptic potentials
- A) can be excitatory or inhibitory
- B) last for less than 1 millisecond
- C) are larger than the resting membrane potential
- D) occur in the brain's white matter

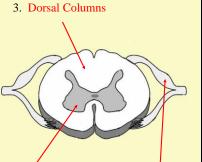


5. Postsynaptic Receptor or Ligand-Gated Ion Channel

Quiz 3B

1. The basic pathway for the stretch reflex does not involve

- A) sensory receptors in the skin
- B) stretch receptors in muscle spindles
- C) alpha motor neurons
- D) dorsal root ganglion neurons
- 2. The left spinothalamic tract carries information about
- A) pain and temperature
- B) joint position sense
- C) the left side of the body
- D) the right side of the face

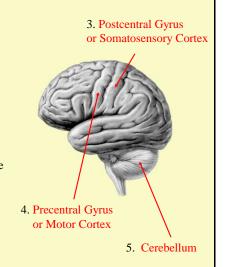


4. Ventral Horn

5. Dorsal Root Ganglion

Quiz 4A

- 1. The chemical transmitter in the neuromuscular junction is
- A) dopamine
- B) acetylcholine
- C) myosin
- D) myelin
- 2. Most fibers in the pyramidal tract cross from one side to the other in the
- A) internal capsule
- B) midbrain
- C) medulla
- D) spinal cord



Quiz 4B

- 1. The chemical transmitter in the nigrostriatal pathway is
- A) acetylcholine
- B) dopamine
- C) glutamate
- D) serotonin
- 2. Which of the following is **not** associated with Parkinson's Disease
- A) tremor
- B) rigidity
- C) slowness of movement
- D) sensory loss



3. Lewy Body



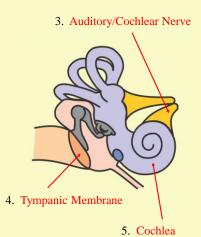
4. Purkinje Cell



5. Semicircular Canal

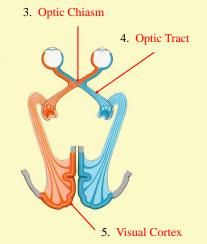
Quiz 5A

- 1. The primary auditory cortex is located in the
- A) frontal lobe
- B) calcarine fissure
- C) superior temporal plane
- D) postcentral gyrus
- 2. Most afferent fibers in the Auditory Nerve
- A) respond near threshold to a wide range of frequencies
- B) connect to the external hair cells
- C) increase their discharge rate with increasing intensity
- D) inhibit the activity of hair cells



Quiz 5B

- 1. Cone receptor cells
- A) are insensitive to color
- B) more abundant in the periphery of the retina than in the macula
- C) connect to retinal bipolar cells
- D) send axons to the brain through the optic nerve
- 2. Prosopagnosia is the
- A) perception of joint position
- B) inability to perceive faces
- C) anterior region of the brain
- D) the future course of a disease



Quiz 6A

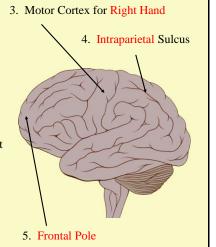
- 1. Slow wave sleep is
- A) full of rapid eye movements
- B) more abundant in the elderly than in children
- C) more abundant in the first half of sleep than in the second half
- D) characterized by vivid dreams
- 2. In brain death
- A) the pupils do not react to light
- B) the eyes spontaneously wander
- C) the patient can breathe without assistance
- D) the patient responds to loud sounds

3. Hypothalamus 4. Pineal Gland

5. Pituitary Gland

Quiz 6B

- 1. The physiological blind spot is caused by
- A) pupils that do not react to light
- B) no receptors over the optic disc
- C) retinal blood vessels
- D) prolonged pressure on the eye
- 2. When a picture is presented to the left visual field of a split-brain subject
- A) he can name the picture
- B) he can identify a corresponding object with the left hand
- C) he can identify a corresponding object with the right hand
- D) he can see nothing

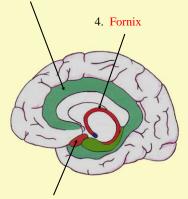


Quiz 7A

- 1. Amnesia is a
- A) a large sea slug used for physiological studies of learning
- B) an inability to recognize faces
- C) an inability to understand speech
- D) a loss of memory.
- 2. Normal working memory
- A) can store about 7 pieces of information
- B) is located in the occipital lobes
- C) can store information for years
- D) is not affected by aging

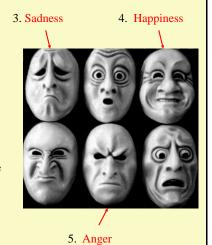
3. Cingulate Gyrus

5. Amygdala



Quiz 7B

- 1. Transient global amnesia
- A) is a forewarning of a stroke
- B) is associated with aphasia
- C) lasts for over 24 hours
- D) requires no treatment
- 2. The dopamine concentration in the synaptic cleft
- A) is increased in Parkinson's disease
- B) is decreased by cocaine
- C) is increased by dopamine uptake transporters
- D) is increased by amphetamines



Quiz 8A

- 1. The most common type of aphasia seen immediately after a stroke is
- A) Wernicke's aphasia
- B) Broca's aphasia
- C) Global aphasia
- D) Anomic Aphasia
- 2. Anomic aphasia
- A) does not occur in frontotemporal dementia
- B) may evolve from Broca's aphasia
- C) can be treated with dopamine
- D) is a symptom of normal aging

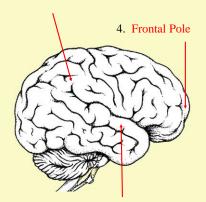
Arcuate Fasciculus 4. Arcuate Fasciculus

5. Wernicke's Area

Quiz 8B

- 1. Which brain region is part of the "default network"
- A) Precentral Gyrus
- B) Calcarine Fissure
- C) Inferior Parietal Lobule
- D) Supplementary Motor Area
- 2. Which symptom is **un**common in Frontotemporal Dementia:
- A) Wernicke's aphasia
- B) behavioral problems
- C) apathy
- D) anomia

3. Inferior Parietal Lobule



5. Superior Temporal Gyrus