Foundations of Neuroscience

Neuroscience · Answer Key · 10 Questions

1. Which lobe of the human brain is primarily responsible for processing visual information?

A) Frontal lobe
B) Occipital lobe
C) Temporal lobe
D) Parietal lobe

2. What is the primary function of the myelin sheath in the nervous system?

A) To produce neurotransmitters
B) To insulate axons and increase signal conduction speed
C) To act as a physical barrier for the blood-brain barrier
D) To store genetic information for neurons

3. Which neurotransmitter is most commonly associated with the regulation of mood, sleep, and appetite?

A) Serotonin
B) Dopamine
C) Acetylcholine
D) Glutamate

4. The 'bridge' that connects the two hemispheres of the brain is known as the:

A) Thalamus
B) Hippocampus
C) Corpus callosum
D) Cerebellum

5. Which part of the neuron is primarily responsible for receiving incoming signals from other neurons?

A) Axon
B) Dendrite
C) Soma
D) Myelin

6. Which structure in the brain is primarily associated with the formation of new long-term memories?

A) Hypothalamus
B) Amygdala
C) Hippocampus
D) Pons

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7. What is the gap between two communicating neurons called?

A) Synapse
B) Node of Ranvier
C) Axon hillock
D) Vesicle

8. Which glial cells are responsible for forming the myelin sheath in the central nervous system?

A) Astrocytes
B) Microglia
C) Oligodendrocytes
D) Schwann cells

9. The 'fight or flight' response is primarily governed by which division of the autonomic nervous system?

A) Parasympathetic nervous system
B) Enteric nervous system
C) Somatic nervous system
D) Sympathetic nervous system

10. Which area of the brain is often referred to as the 'relay station' for sensory information before it reaches the cerebral cortex?

A) Thalamus
B) Pineal gland
C) Medulla oblongata
D) Basal ganglia

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