Neuroscience of the Natural World

Neuroscience · Answer Key · 18 Questions

1. Which organ serves as the central control unit of the nervous system in vertebrates?

A) Heart
B) Brain
C) Lungs
D) Stomach

2. What is the primary function of neurons in an animal's body?

A) Digesting food
B) Filtering water
C) Transmitting electrical signals
D) Growing fur

3. Which part of a neuron is responsible for receiving signals from other neurons?

A) Dendrites
B) Axon
C) Cell body
D) Synapse

4. What is the protective outer layer of many animal brains called?

A) Cortex
B) Spine
C) Scale
D) Shell

5. Which animal is known for having a decentralized nervous system consisting of nerve nets?

A) Lion
B) Eagle
C) Jellyfish
D) Elephant

6. What chemicals allow neurons to communicate across the gap between them?

A) Oxygen
B) Neurotransmitters
C) Water
D) Glucose

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7. Which sense do bats primarily use to navigate in the dark using their brain's processing power?

A) Echolocation
B) Color vision
C) Thermal sensing
D) Taste

8. In neuroscience, what is the gap between two neurons called?

A) Tunnel
B) Synapse
C) Bridge
D) Pathway

9. Which group of animals is known for having the most complex brain structures relative to their body size?

A) Mammals
B) Reptiles
C) Amphibians
D) Fish

10. What part of the brain is responsible for balance and coordination in birds?

A) Cerebellum
B) Brain stem
C) Olfactory bulb
D) Spinal cord

11. How do plants respond to stimuli without a nervous system?

A) By using electrical pulses only
B) By using chemical signaling
C) By having a central brain
D) By having a spine

12. Which nerve carries visual information from the eye to the brain?

A) Optic nerve
B) Auditory nerve
C) Olfactory nerve
D) Spinal nerve

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13. What is the primary role of the spinal cord in an animal?

A) Digesting protein
B) Connecting the brain to the body
C) Storing fat
D) Reflecting light

14. Which aquatic animal is famous for having a large brain and high intelligence?

A) Dolphin
B) Goldfish
C) Sea sponge
D) Coral

15. What part of the brain is most involved in processing smells in a shark?

A) Olfactory bulb
B) Cerebrum
C) Cerebellum
D) Medulla

16. What type of signal travels along the axon of a neuron?

A) Chemical signal
B) Mechanical vibration
C) Electrical impulse
D) Magnetic wave

17. Which animal has a nervous system that allows it to change skin color rapidly?

A) Octopus
B) Goldfish
C) Earthworm
D) Snail

18. Which sense organ detects sound vibrations in the environment and sends signals to the brain?

A) Ear
B) Skin
C) Tongue
D) Nose

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